

# Level 2 NVQ Diploma in Plant Operations (Construction)

**Qualification Specification** 

# **Contents**

	Page
Introduction	3
Qualification profile	4
Qualification Structure	5
Pathway 1 – Cranes and Specialist Lifting	7
Pathway 2 – Excavating	8
Pathway 3 – Extracting	9
Pathway 4 – Construction and Forming	10
Pathway 5 – Transporting Loads	11
Pathway 6 – Laying and Distributing	12
Pathway 7 – Road/Rail	13
Pathway 8 – Attachments	14
Pathway 9 – In-shore Marine	15
Pathway 10 – Erecting and Dismantling	17
Pathway 11 – Road Plant or Machinery	18
Additional Units	19
Centre requirements	20
Support for candidates	20
Links to National Standards / NOS mapping	20
Assessment	21
Internal quality assurance	21
Adjustments to assessment	22
Results enquiries and appeals	22
Certification	22
Units - learning outcomes and assessment criteria	23

#### Introduction

The ProQual Level 2 NVQ Diploma in Plant Operations (Construction) qualification provides a nationally recognised qualification for plant operatives following one of 11 Pathways relating to their work roles:

```
Pathway 1:
              Level 2 NVQ Diploma in Plant Operations (Cranes and Specialist Lifting)
              Level 2 NVQ Diploma in Plant Operations (Extracting)
Pathway 2:
              Level 2 NVQ Diploma in Plant Operations (Excavating)
Pathway 3:
              Level 2 NVQ Diploma in Plant Operations (Constructing and Forming)
Pathway 4:
Pathway 5:
              Level 2 NVQ Diploma in Plant Operations Transporting Loads)
Pathway 6:
              Level 2 NVQ Diploma in Plant Operations (Laying and Distributing)
              Level 2 NVQ Diploma in Plant Operations (Road/Rail)
Pathway 7:
Pathway 8:
              Level 2 NVQ Diploma in Plant Operations (Attachments)
Pathway 9:
              Level 2 NVQ Diploma in Plant Operations (In-shore and Marine)
              Level 2 NVQ Diploma in Plant Operations (Erecting and Dismantling)
Pathway 10:
              Level 2 NVQ Diploma in Plant Operations (Road Plant or Machinery)
Pathway 11:
```

The awarding body for this qualification is ProQual Awarding Body (<a href="www.proqualab.com">www.proqualab.com</a>) and the regulatory body is the Office of Qualifications and Examinations Regulation (Ofqual); It is also endorsed by the sector body for construction - CITB.

The qualification has been accredited onto the Regulated Qualifications Framework (RQF) and is published on Ofqual's Register of Qualifications at:

http://register.ofqual.gov.uk/Qualification/Details/601 9029 2

This qualification replaces 600/6365/8 ProQual Level 2 NVQ Diploma in Plant Operations (Construction)(QCF).

# **Qualification Profile Level 2 NVQ Diploma in Plant Operations (Construction)**

Qualification title ProQual Level 2 NVQ Diploma in Plant Operations

(Construction)

Ofqual qualification number 601/9029/2

Level 2

Total Qualification Time 450 hours (150 GLH)

Pass or fail

Assessment Internally assessed and verified by centre staff

External quality assurance by ProQual verifiers

Qualification start date 1/7/16

Qualification end date

# **Entry Requirements**

There are no formal entry requirements for this qualification.

Centres should carry out an **initial assessment** of candidate skills and knowledge to identify any gaps and help plan the assessment.

#### **Qualification Structure**

To achieve the qualification candidates must complete the two Mandatory units plus the required Mandatory and/or Optional Units from one of the Pathways.

Candidates may complete any of the Additional Units but these will not count towards the qualification.

CITB references and credit values are provided in this document for information only.

Mandatory Units for all Pathways			CITB references and credit values provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169

#### **Pathways**

There are 11 Pathways, the Mandatory/Optional unit requirements for each are listed from page 7.

Pathway 1:	Level 2 NVQ Diploma in Plant Operations (Cranes and Specialist Lifting	3)

Pathway 2:	Level 2 NVQ Diploma in Plant Operations (Extracting)
rathway 2.	Level 2 MVQ Diploma in Flame Operations (Extracting)

Pathway 5: Level 2 NVQ Diploma in Plant Operations Transporting Loads)

Pathway 6: Level 2 NVQ Diploma in Plant Operations (Laying and Distributing)

Pathway 7: Level 2 NVQ Diploma in Plant Operations (Road/Rail)

Pathway 8: Level 2 NVQ Diploma in Plant Operations (Attachments)

Pathway 9: Level 2 NVQ Diploma in Plant Operations (In-shore and Marine)

Pathway 10: Level 2 NVQ Diploma in Plant Operations (Erecting and Dismantling)

Pathway 11: Level 2 NVQ Diploma in Plant Operations (Road Plant or Machinery)

#### **Additional Units**

Candidates may complete any of the Additional Units but these will not count towards the qualification.

Additional Units for All Pathways			CITB references and credit values provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
Y/508/6533	Moving, handling and storing resources in the workplace	2	5	643	F/503/1171
F/508/6526	Operating plant or machinery for non- operational activities in the workplace	2	10	659	L/505/0175

# **Pathway 1: Cranes and Specialist Lifting**

Mandatory Units		CITB references and credit values provided for information only			
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
Optional Units	s – complete ONE unit		CITB references and credit values provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
H/508/6566	Preparing and operating crawler cranes (above10 tonnes) to lift and transfer loads in the workplace	2	80	387Bv2	D/506/4601
K/508/6567	Preparing and operating tower cranes to lift and transfer loads in the workplace	2	80	387Cv2	H/506/4602
M/508/6568	Preparing and operating mobile cranes to lift and transfer loads in the workplace	2	95	387Dv2	K/506/4603
T/508/6569	Preparing and operating crawler-tractor side booms to lift and transfer loads in the workplace	2	50	387Pv2	L/506/4612

# Pathway 2: Extracting

Mandatory Units			CITB references and credit values provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
Optional Units	s – complete ONE unit		_		d credit values rmation only
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
K/508/6570	Preparing and operating draglines to extract ground and/or loose materials in the workplace	2	60	388Av3	M/506/4618
M/508/6571	Preparing and operating 180 degree excavators to extract and excavate ground and loose materials in the workplace	2	80	388Bv3	T/506/4619
T/508/6572	Preparing and operating tracked loading shovels to extract ground and loose materials in the workplace	2	80	388Dv3	A/506/4623
A/508/6573	Preparing and operating motorised scrapers to extract, transport and distribute materials in the workplace	2	80	388Fv3	J/506/4625
F/508/6574	Preparing and operating trenchers to extract ground and/or loose materials in the workplace	2	50	388Gv3	R/506/4627
J/508/6575	Preparing and operating 360 degree excavators to extract ground, face and/or loose materials in the workplace	2	80	388Jv3	D/506/4629
L/508/6576	Preparing and operating crawler tractor dozers to carry out dozer operations in the workplace	2	80	388Lv1	R/506/4630

# Pathway 3: Excavating

Mandatory Units			CITB references and credit values provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
Optional Units	s – complete ONE unit		_		d credit values rmation only
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6571	Preparing and operating 180 degree excavators to extract and excavate ground and loose materials in the workplace	2	80	388Bv3	T/506/4619
L/508/6576	Preparing and operating crawler tractor dozers to carry out dozer operations in the workplace	2	80	388Lv1	R/506/4630
R/508/6577	Preparing and operating draglines to excavate ground materials in the workplace	2	60	389Av3	Y/506/4631
Y/508/6578	Preparing and operating 360 degree excavators to excavate ground in the workplace	2	80	389Cv3	H/506/4728
D/508/6579	Preparing and operating trenchers to excavate ground in the workplace	2	50	389Dv3	D/506/4632
R/508/6580	Preparing and operating tracked loading shovels to excavate ground and loose materials in the workplace	2	80	389Fv1	F/506/4638

# **Pathway 4: Constructing and Forming**

Mandatory Units			CITB references and credit values provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
Optional Units	Optional Units – complete ONE unit		CITB references and credit value provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
Y/508/6581	Preparing and operating graders to form and shape ground and/or loose materials in the workplace	2	70	390Av3	A/506/4640
L/508/6576	Preparing and operating crawler tractor dozers to carry out dozer operations in the workplace	2	80	388Lv1	R/506/4630
D/508/6582	Preparing and operating formwork rigs to construct and form in the workplace	2	52	390Dv1	J/506/9050

# **Pathway 5: Transporting Loads**

# **Candidates must complete THREE Mandatory Units.**

Mandatory Units			CITB references and credit values provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
H/508/6583	Preparing and operating truck-mounted boom concrete pumps to receive, pump and discharge materials in the workplace	2	70	391Av3	F/506/4641

# **Pathway 6: Laying and Distributing**

Mandatory Units			CITB references and credit values provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
Optional Units	Optional Units – complete ONE unit		CITB references and credit value provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
L/508/6576	Preparing and operating crawler tractor dozers to carry out dozer operations in the workplace	2	80	388Lv1	R/506/4630
K/508/6584	Preparing and operating soil stabilisers to lay and distribute materials in the workplace	2	40	393Av3	K/506/4651

# Pathway 7: Road/Rail

Mandatory Units			CITB references and credit values provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
J/508/6527	Preparing and operating road/rail adapted plant in the workplace	2	8	398v3	T/506/4670
Optional Units	s – complete ONE unit		_		d credit values rmation only
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6571	Preparing and operating 180 degree excavators to extract and excavate ground and loose materials in the workplace	2	80	388Bv3	T/506/4619
T/508/6572	Preparing and operating tracked loading shovels to extract ground and loose materials in the workplace	2	80	388Dv3	A/506/4623
J/508/6575	Preparing and operating 360 degree excavators to extract ground, face and/or loose materials in the workplace	2	80	388Jv3	D/506/4629
L/508/6576	Preparing and operating crawler tractor dozers to carry out dozer operations in the workplace	2	80	388Lv1	R/506/4630
Y/508/6578	Preparing and operating 360 degree excavators to excavate ground in the workplace	2	80	389Cv3	H/506/4728

# Pathway 8: Attachments

Mandatory Ur	nits	CITB references and credit values provided for information only			
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
L/508/6528	Preparing and operating plant or machinery attachments in the workplace	2	7	399v3	A/506/4671
Optional Units	s – complete ONE unit		_		d credit values rmation only
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
M/508/6571	Preparing and operating 180 degree excavators to extract and excavate ground and loose materials in the workplace	2	80	388Bv3	T/506/4619
T/508/6572	Preparing and operating tracked loading shovels to extract ground and loose materials in the workplace	2	80	388Dv3	A/506/4623
J/508/6575	Preparing and operating 360 degree excavators to extract ground, face and/or loose materials in the workplace	2	80	388Jv3	D/506/4629
L/508/6576	Preparing and operating crawler tractor dozers to carry out dozer operations in the workplace	2	80	388Lv1	R/506/4630
Y/508/6578	Preparing and operating 360 degree excavators to excavate ground in the workplace	2	80	389Cv3	H/506/4728

#### Pathway 9: In-shore Marine

# Candidates must complete THREE Mandatory Units, plus ONE Optional Unit

Mandatory Ur	nits	_		d credit values rmation only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.	
M/508/6537	Conforming to general health, safety and welfare in the workplace					
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169	
M/508/6585	Preparing and operating plant or machinery from a floating vessel in the workplace	2	36	403v2	L/506/4674	
Optional Units	s – complete ONE unit		_		d credit values rmation only	
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.	
R/508/6479	Preparing and operating compact cranes to lift and transfer loads in the workplace	2	30	387Av2	Y/506/4600	
H/508/6566	Preparing and operating crawler cranes (above 10 tonnes) to lift and transfer loads in the workplace	2	80	387Bv2	D/506/4601	
M/508/6568	Preparing and operating mobile cranes to lift and transfer loads in the workplace	2	95	387Dv2	K/506/4603	
J/508/6480	Preparing and operating pedestrian operated tower cranes to lift and transfer loads in the workplace	2	30	387Ev2	M/506/4602	
R/508/6482	Preparing and operating excavator cranes to lift and transfer loads in the workplace	2	30	387Gv2	A/506/4606	
F/508/6493	Preparing and operating telescopic handlers to lift and transfer loads in the workplace	2	25	387Lv2	F/506/4610	
D/508/6484	Preparing and operating lorry loaders or knuckle booms to lift and transfer loads in the workplace	2	30	387Qv2	R/506/4613	
R/508/6577	Preparing and operating draglines to excavate ground materials in the workplace	2	60	389Av3	Y/506/4631	
Y/508/6578	Preparing and operating 360 degree excavators to excavate ground in the workplace	2	80	389Cv3	H/506/4728	

Pathway 9 – Inshore Marine Optional Units /continued on page 16

# Pathway 9 – Inshore Marine Optional Units continued

Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
H/508/6583	Preparing and operating truck-mounted boom concrete pumps to receive, pump and discharge materials in the workplace	2	70	391Av3	F/506/4641
H/508/6504	Preparing and operating trailer-mounted concrete pumps to receive, pump and discharge materials in the workplace	2	18	391Ev3	M/506/5087
F/508/6509	Preparing and operating boom-type mobile elevating work platforms (MEWP) in the workplace	2	14	392Bv3	M/506/4649
A/508/6587	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace	2	7	400v2	F/506/4672

# Pathway 10: Erecting and Dismantling

# **Candidates must complete FIVE Mandatory Units.**

Mandatory Ur	nits	CITB references and credit values provided for information only			
Unit Ref.	Title	Title Level			CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
A/508/6525	Slinging and hand signalling the movement of suspended loads in the workplace	2	10	402Av1	R/506/3929
F/508/6588	Erecting and dismantling plant (cranes and rigs) in the workplace	2	36	404v2	R/506/4675
Y/508/6533	Moving, handling and storing resources in the workplace	2	5	643	F/503/1171

# Pathway 11: Road Plant or Machinery

# **Candidates must complete THREE Mandatory Units.**

Mandatory Ur	nits	CITB references and credit values provided for information only			
Unit Ref.	Title	Level			CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
J/508/6589	Preparing, operating and controlling operations or road plant or machinery in the workplace	2	49	376v3	T/506/5088

# **Additional Units for All Pathways**

Candidates may complete any of the Additional Units for any of the Pathways but they will not count towards the qualification.

Additional Un	its for All Pathways	CITB references and credit values provided for information only			
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
Y/508/6533	Moving, handling and storing resources in the workplace	2	5	643	F/503/1171
F/508/6526	Operating plant or machinery for non- operational activities in the workplace	2	10	659	L/505/0175

### **Centre Requirements**

Centres must be approved to offer this qualification. If your centre is not approved please complete and submit form **ProQual Additional Qualification Approval Application**.

#### Staff

Staff delivering this qualification must be appropriately qualified and/or occupationally competent.

#### **Assessors/Internal Quality Assurance**

Assessors for each unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Assessors and internal quality assurance verifiers for competence-based units or qualifications will normally need to hold appropriate assessor or internal quality assurance qualifications.

# **Support for Candidates**

Materials produced by centres to support candidates should:

- enable them to track their achievements as they progress through the learning outcomes and assessment criteria;
- provide information on where ProQual's policies and procedures can be viewed;
- provide a means of enabling Internal and External Quality Assurance staff to authenticate evidence

# **Links to National Standards / NOS mapping**

National Occupational Standards (NOS) are owned by a Sector Skills Council or Standard Setting Body and they describe the skills, knowledge and understanding needed to undertake a particular task or job at different levels of competence.

The structure and units of this qualification are based on NOS for the construction sector developed by CITB.

#### **Assessment**

This qualification is competence-based, candidates must demonstrate the level of competence described in the units. Assessment is the process of measuring a candidate's skill, knowledge and understanding against the standards set in the qualification.

The qualifications must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment, and it must be internally assessed by an appropriately experienced and qualified assessor.

Each candidate is required to produce a portfolio of evidence which demonstrates their achievement of all of the learning outcomes and assessment criteria for each unit.

Evidence can include:

- observation report by assessor
- assignments/projects/reports
- professional discussion
- witness testimony
- candidate product
- worksheets
- record of oral and written questioning
- Recognition of Prior Learning

**Learning outcomes** set out what a candidate is expected to know, understand or be able to do.

**Assessment criteria** specify the standard a candidate must meet to show the learning outcome has been achieved.

Learning outcomes and assessment criteria can be found from page 22.

**Additional information** for assessment and requirements for unit **endorsements** where relevant is included after all of the learning outcomes and assessment criteria for each unit.

# **Internal Quality Assurance**

An internal quality assurance verifier confirms that assessment decisions made in centres are made by competent and qualified assessors, that they are the result of sound and fair assessment practice and that they are recorded accurately and appropriately.

# **Adjustments to Assessment**

Adjustments to standard assessment arrangements are made on the individual needs of candidates. ProQual's Reasonable Adjustments Policy and Special Consideration Policy sets out the steps to follow when implementing reasonable adjustments and special considerations and the service that ProQual provides for some of these arrangements.

Centres should contact ProQual for further information or queries about the contents of the policy.

# **Results Enquiries and Appeals**

All enquiries relating to assessment or other decisions should be dealt with by centres, with reference to ProQual's Enquiries and Appeals Procedures.

#### Certification

Candidates who achieve the requirements for this qualification will be awarded:

- A certificate listing all units achieved, and
- A certificate giving the full qualification title -

ProQual Level 2 NVQ Diploma in Plant Operations (Construction)

#### **Claiming certificates**

Centres may claim certificates for candidates who have been registered with ProQual and who have successfully achieved the qualification. All certificates will be issued to the centre for successful candidates.

#### **Unit certificates**

If a candidate does not achieve all of the units required for a qualification, the centre may claim a unit certificate for the candidate which will list all of the units achieved.

#### **Replacement certificates**

If a replacement certificate is required a request must be made to ProQual in writing. Replacement certificates are labelled as such and are only provided when the claim has been authenticated. Refer to the Fee Schedule for details of charges for replacement certificates.

Title:	Conforming to general health, safety and welfare in the workplace						
Unit Number:	M/508/6537						
Learning outcome			Assessment criteria The learner can:				
health, safety a	<ol> <li>Comply with all workplace health, safety and welfare legislation requirements.</li> </ol>		Comply with information from workplace inductions and any health, safety and welfare briefings attended relevant to the occupational area.				
		1.2	Use health and safety control equipment safely to carry out the activity in accordance with legislation and organisational requirements.				
		1.3	Comply with statutory requirements, safety notices and warning notices displayed within the workplace and/or on equipment.				
		1.4	State why and when health and safety control equipment, identified by the principles of protection, should be used relating to types, purpose and limitations of each type, the work situation, occupational use and the general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).				
		1.5	State how the health and safety control equipment relevant to the work should be used in accordance with the given instructions.				
		1.6	State which types of health, safety and welfare legislation, notices and warning signs are relevant to the occupational area and associated equipment.				
		1.7	State why health, safety and welfare legislation, notices and warning signs are relevant to the occupational area.				
		1.8	State how to comply with control measures that have been identified by risk assessments and safe systems of work.				
with the work	ards associated place that have	2.1	Report any hazards created by changing circumstances within the workplace in accordance with organisational procedures.				
and report the	not been previously controlled and report them in accordance with organisational procedures.	2.2	List typical hazards associated with the work environment and occupational area in relation to resources, substances, asbestos, equipment, obstructions, storage, services and work activities.				
		2.3	List the current Health and Safety Executive top ten safety risks.				

Title:	Conforming to	forming to general health, safety and welfare in the workplace.					
Learning outcome			Assessment criteria The learner can:				
2 continued		2.4	List the current Health and Safety Executive top five health risks.				
		2.5	State how changing circumstances within the workplace could cause hazards.				
		2.6	State the methods used for reporting changed circumstances, hazards and incidents in the workplace.				
3 Comply with organisational policies and procedures to contribute to health, safety and welfare.		3.1	Interpret and comply with given instructions to maintain safe systems of work and quality working practices.				
		3.2	Contribute to discussions by offering/providing feedback relating to health, safety and welfare.				
		3.3	Contribute to the maintenance of workplace welfare facilities in accordance with workplace welfare procedures.				
	3.4	Safely store health and safety control equipment in accordance with given instructions.					
		3.5	Dispose of waste and/or consumable items in accordance with legislation.				
		3.6	State the organisational policies and procedures for health, safety and welfare, in relation to:  - dealing with accidents and emergencies associated with the work and environment  - methods of receiving or sourcing information  - reporting  - stopping work  - evacuation  - fire risks and safe exit procedures  - consultation and feedback.				
		3.7	State the appropriate types of fire extinguishers relevant to the work.				
		3.8	State how and when the different types of fire extinguishers are used in accordance with legislation and official guidance.				

Tit	le:	Conforming to	genera	l health, safety and welfare in the workplace.			
	arning outcome		Assessment criteria The learner can:				
4 Work responsibly to contribute to workplace health, safety and welfare		4.1	Demonstrate behaviour which shows personal responsibility for general workplace health, safety and welfare.				
	whilst carrying out work in the relevant occupational area.		4.2	State how personal behaviour demonstrates responsibility for general workplace health, safety and welfare, in relation to:  - recognising when to stop work in the face of serious and imminent danger to self and/or others  - contributing to discussions and providing feedback  - reporting changed circumstances and incidents in the workplace  - complying with the environmental requirements of the workplace.			
			4.3	Give examples of how the behaviour and actions of individuals could affect others within the workplace.			
5	organisationa	and support all I security s and approved	5.1	Provide appropriate support for security arrangements in accordance with approved procedures:  - during the working day  - on completion of the day's work  - for unauthorised personnel (other operatives and the general public)  - for theft.			
			5.2	State how security arrangements are implemented in relation to the workplace, the general public, site personnel and resources.			

Title:	Conforming to general health, safety and welfare in the workplace.				
Additional information about this unit					
Assessment Guidance		This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.			
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.			
		Workplace evidence of skills cannot be simulated.			
Sector Subject Are	ea	05.2 Building and Construction			
Availability for use	9	Shared unit			
Credit value		2			
Unit guided learni	ng hours	7			

Title: Conforming t		produ	active working practices in the workplace
Unit Number :	T/508/6538		
Learning outcome			sment criteria
The learner will be	e able to:	The le	earner can:
Communicate with others to establish productive work practices.		1.1	Communicate in an appropriate manner with line management, colleagues and/or customers to ensure that work is carried out productively.
		1.2	Describe the different methods of communicating with line management, colleagues and customers.
		1.3	Describe how to use different methods of communication to ensure that the work carried out is productive.
procedures to	Procedures to plan the sequence of work.		Interpret relevant information from organisational procedures in order to plan the sequence of work.
sequence of w			Plan the sequence of work, using appropriate resources, in accordance with organisational procedures to ensure work is completed productively.
			Describe how organisational procedures are applied to ensure work is planned and carried out productively, in relation to:  - using resources for own and other's work requirements - allocating appropriate work to employees - organising the work sequence - reducing carbon emissions.
		2.4	Describe how to contribute to zero/low carbon work outcomes within the built environment.
3 Maintain relevar accordance wit organisational p	h the	3.1	Complete relevant documentation according to the occupation as required by the organisation.
organisational p	orocedures.	3.2	Describe how to complete and maintain documentation in accordance with organisational procedures, in relation to:  – job cards  – worksheets  – material/resource lists  – time sheets.
			Explain the reasons for ensuring documentation is completed clearly and within given timescales.
4 Maintain good relationships w to productive w practices.	hen conforming	4.1	Carry out work productively, to the agreed specification, in conjunction with line management, colleagues, customers and/or other relevant people involved in the work to maintain good working relationships.

Title:	Conforming to	o productive working practices in the workplace		
Learning outcomes The learner will be able to:			ssment criteria earner can:	
		4.2	Apply the principles of equality and diversity and respect the needs of individuals when communicating and working with others.	
		4.3	Describe how to maintain good working relationships, in relation to:  - individuals  - customer and operative  - operative and line management  - own and other occupations.	
		4.4	Describe why it is important to work effectively with line management, colleagues and customers.	
		4.5	Describe how working relationships could have an effect on productive working.	
		4.6	Describe how to apply principles of equality and diversity when communicating and working with others.	

Title:	Conforming to Productive Working Practices in the Workplace			
Additional inform	Additional information about this unit			
Assessment Guidance		This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.		
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.		
		Workplace evidence of skills cannot be simulated.		
Sector Subject Areas Availability for use		5.2 Building and Construction		
		Shared unit		
Unit credit value		3		
Unit guided learning hours		10		

Title: Preparing and o		perati	ng compact cranes to lift and transfer loads in the workplace	
<b>Unit Number:</b> R/508/6479				
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
Interpret the given     information relating to the     preparation and use of	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.		
and place loads	s to lift, transfer s.	1.2	Comply with information and/or instructions derived from risk assessments and method statements.	
			Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of compact cranes to lift and transfer loads.	
2 Organise with o	peration in	2.1	Organise the work according to given information or instructions.	
	which lifting operations using compact cranes are to be carried out.	2.2	Describe how to communicate ideas between team members.	
			Organise and communicate with team members and other associated occupations.	
		2.4	Describe how to organise resources prior to and during lifting operations with compact cranes.	
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using compact cranes.	3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  — in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.		
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.	

Title:	Preparing and operating compact cranes to lift and transfer loads in the workplace		ce	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out lifting operations using compact cranes.		4.1 Use health and safety control equipment safely and comwith the methods of work to carry out the activity in accordance with legislation and organisational requiremduring lifting operations.		
		<ul> <li>4.2 Demonstrate compliance with given information and relegislation when carrying out lifting operations using concranes in relation to two or more of the following: <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>safe use and storage of lifting accessories</li> <li>specific risks to health.</li> </ul> </li> </ul>		
		<ul> <li>4.3 Explain why and when health and safety control equipmed identified by the principles of protection, should be used relating to compact crane use, and the types, purpose a limitations of each type, the work situation and general environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>	d, ınd	
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	1	
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and perso skills when involved with fires, spillages, injuries and oth task-related activities.		
required qua of resources	Request and select the required quantity and quality of resources to prepare for and carry out lifting operations using compact cranes.	5.1 Request and select resources associated with compact of in relation to consumables, materials, tools, ancillary equipment and/or accessories.	cranes	
-		<ul> <li>Describe the characteristics, quality, uses, sustainability limitations and defects associated with the resources, a how they should be used correctly, relating to:         <ul> <li>consumables, lubricants and fuels</li> <li>attachments and lifting accessories</li> <li>hand tools, ancillary equipment and accessories.</li> </ul> </li> </ul>		
		5.3 Describe how the resources should be used correctly an how problems associated with the resources are reported		

Tit	Title: Preparing and operating compact cranes to lift and transfer loads in the workplace			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and method of work.
			5.6	Describe how to identify weight, bearing, pressure, quantity, length and area associated with the method/procedures to carry out lifting operations with_compact cranes.
6	to the work area when p	e risk of damage and surrounding reparing to and	6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	lifting and transferring loads.	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	Complete the work within the allocated time when preparing	7.1	Demonstrate completion of the work within the allocated time.	
	to and lifting and transferring loads.		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.

Title:	Preparing and operat	ing cor	npact cranes to lift and transfer loads in the workplace	
Learning outcomes		Assessment criteria		
The learner will be able to:		The le	arner can:	
8 Comply with the given contract information to lift, transfer and place loads using compact cranes to the required specification.		8.1	<ul> <li>Demonstrate the following work skills when preparing for,</li> <li>lifting, transferring and placing loads using compact cranes:</li> <li>checking, adjusting, communicating, operating,</li> <li>manoeuvring, positioning, lifting, transferring and setting down.</li> </ul>	
		8.2	Use and maintain hand tools, ancillary equipment and/or accessories.	
		8.3	Prepare, set up and operate compact cranes to lift, transfer and place a variety of loads to given working instructions.	
		8.4	Shut down and secure compact cranes.	
		8.6	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  identify the characteristics of the crane for the lifting and transferring operation  identify valid certification for maintenance, inspection and thorough examination  lift and transfer people  carry out function checks for lifting and transferring loads  prepare, set up and reconfigure for various loads and locations  carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  identify characteristics, type, weight and position of loads for lifting and transferring  recognise and determine when specific skills and knowledge are required and report accordingly  secure and balance loads for lifting  lift, remove and transfer loads  position, place and set down loads  confirm load stability, security and release  attach and remove guide ropes and aids  be on the public highway  shut down and secure the crane  use hand tools and ancillary equipment  use, handle and store lifting accessories.	
		8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.	
		8.8	Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.	

Title:	Preparing and operating compact cranes to lift and transfer loads in the workplace					
Additional information about this unit						
Assessment Guidance		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.				
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.				
		Workplace evidence of skills cannot be simulated.				
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.				
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction):				
		One of the following endorsements required:				
		Compact crane – static stabilisers				
		Compact crane – mobile industrial				
		Compact crane – luffing static				
		Compact crane – 360 degree pick and carry				
Sector subject	ct areas	5.2 Building and Construction				
Availability fo	or use	Shared unit				
Unit credit va	alue	30				
Unit guided le	earning	100				

Title:	Preparing and operating pedestrian operated tower cranes to lift and transfer loads in the workplace			
<b>Unit Number:</b> J/508/6480				
Learning outcomes The learner will be able to	o:	Assessment criteria The learner can:		
Interpret the given     information relating to the     preparation and use of		1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.	
pedestrian operate cranes to lift, trans place loads.		1.2	Comply with information and/or instructions derived from risk assessments and method statements.	
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of pedestrian operated tower cranes to lift and transfer loads.	
2 Organise with others the sequence and operation in		2.1	Organise the work according to given information or instructions.	
which lifting operations usin pedestrian operated tower cranes are to be carried out.	ed tower	2.2	Describe how to communicate ideas between team members.	
		2.3	Organise and communicate with team members and other associated occupations.	
		2.4	Describe how to organise resources prior to and during lifting operations with pedestrian operated tower cranes.	
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using pedestrian operated tower cranes.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  – in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
	3.2	3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.	

Title: Preparing an loads in the		nd operating pedestrian operated tower cranes to lift and transfer workplace		
Learning outcomes The learner will be able to:		Assessment criteria  The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out lifting operations using		Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during lifting operations.		
pedestrian operated tower cranes.	4.2	Demonstrate compliance with given information and relevant legislation when carrying out lifting operations using pedestrian operated tower cranes in relation to two or more of the following:  - safe use and storage of plant or machinery  - safe use and storage of tools and equipment  - safe use and storage of lifting accessories  - specific risks to health.		
	4.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to pedestrian operated tower crane use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).		
	4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
	4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select the required quantity and quality of resources to prepare for	d quality re for	Request and select resources associated with pedestrian operated tower cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
and carry out lifting o using pedestrian oper tower cranes.	•	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and lifting accessories  - hand tools, ancillary equipment and accessories.		
	5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Title: Preparing and operating pedestrian operated tower cranes to lift and to loads in the workplace						
Learning outcomes		Assessment criteria				
The	e learner will be able to	0:	The learner can:			
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and method of work.		
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out lifting operations with_pedestrian operated tower cranes.		
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.		
	lifting and transfer	and transferring loads.	6.2	Prevent damage and maintain a clean work space.		
			6.3	Dispose of waste in accordance with current legislation.		
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.		
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.		
7	Complete the work within the allocated time when preparing	en preparing	7.1	Demonstrate completion of the work within the allocated time.		
	to and lifting and transferring loads.		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.		

Title:	Preparing and o	operating pedestrian operated tower cranes to lift and transfer orkplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
8 Comply with the given contract information to lift, transfer and place loads using pedestrian operated tower cranes to the required specification.		<ul> <li>Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using pedestrian operated tower cranes:         <ul> <li>checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down.</li> </ul> </li> </ul>		
	8.	.2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.	Prepare, set up and operate pedestrian operated tower cranes to lift, transfer and place a variety of loads to given working instructions.		
	8.	4 Shut down and secure pedestrian operated tower cranes.		
	8.	<ul> <li>procedures, report problems and establish authority needed to rectify, to:         <ul> <li>identify the characteristics of the crane for the lifting and transferring operation</li> <li>identify valid certification for maintenance, inspection and thorough examination</li> <li>lift and transfer people</li> <li>carry out function checks for lifting and transferring loads</li> <li>prepare, set up and reconfigure for various loads and locations</li> <li>carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area</li> <li>identify characteristics, type, weight and position of loads for lifting and transferring</li> </ul> </li> </ul>		
	8.	- recognise and determine when specific skills and knowledge are required and report accordingly - secure and balance loads for lifting - lift, remove and transfer loads - position, place and set down loads - confirm load stability, security and release - attach and remove guide ropes and aids - be on the public highway - shut down and secure the crane - use hand tools and ancillary equipment - use, handle and store lifting accessories.		
	8.	7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.		
	8.	.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.		

Title:	Preparing and operating pedestrian operated tower cranes to lift and transfer loads in the workplace			
Additional inform	ation	about this unit		
Assessment Guida	ince	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.  This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.  ProQual Level 2 NVQ Diploma in Plant Operations (Construction)  One of the following endorsements required: Pedestrian operated tower crane Pedestrian operated tower crane inclined jib		
Sector subject are	as	5.2 Building and Construction		
Availability for use		Shared unit		
Unit credit value		30		
Unit guided learning hours		100		

Title:	Preparing ar workplace	nd oper	ating excavator cranes to lift and transfer loads in the
Unit Number: R/508/6482			
Learning outcomes The learner will be able t	o:		sment criteria arner can:
Interpret the given     information relating to the     preparation and use of		1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.
excavator cranes t transfer and place	•	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of excavator cranes to lift and transfer loads.
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
which lifting opera excavator cranes a carried out.	_	2.2	Describe how to communicate ideas between team members.
		2.3	Organise and communicate with team members and other associated occupations.
		2.4	Describe how to organise resources prior to and during lifting operations with excavator cranes.
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using excavator cranes.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

Title:	Preparing and workplace	nd operating excavator cranes to lift and transfer loads in the	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
4 Maintain safe and healthy working practices when preparing for and carrying out lifting operations using		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during lifting operations.	
excavator cranes.		<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out lifting operations using excavator cranes in relation to two or more of the following: <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>safe use and storage of lifting accessories</li> <li>specific risks to health.</li> </ul> </li> </ul>	
		<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to excavator crane use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>	
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.	
5 Request and select required quantity of resources to pre	and quality epare for	5.1 Request and select resources associated with excavator cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.	
and carry out lifting operatio using excavator cranes.		<ul> <li>Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:         <ul> <li>consumables, lubricants and fuels</li> <li>attachments and lifting accessories</li> <li>hand tools, ancillary equipment and accessories.</li> </ul> </li> </ul>	
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.	

Title: Preparing ar workplace		nd ope	rating excavator cranes to lift and transfer loads in the	
Learning outcomes		Assessment criteria		
The	e learner will be able to	o:	The le	arner can:
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.
			5.5	Describe any potential hazards associated with the resources and method of work.
			5.6	Describe how to identify weight, pressure, quantity, length and area associated with the method/procedures to carry out lifting operations with excavator cranes.
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and lifting and transferring loads.		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
			6.2	Prevent damage and maintain a clean work space.
			6.3	Dispose of waste in accordance with current legislation.
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	7 Complete the work within the allocated time when preparing to and lifting and transferring loads.		7.1	Demonstrate completion of the work within the allocated time.
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.

Title:	Preparing and workplace	nd operating excavator cranes to lift and transfer loads in the	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
8 Comply with the given contract information to lift, transfer and place loads using excavator cranes to the required specification.		<ul> <li>Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using excavator cranes:         <ul> <li>checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down.</li> </ul> </li> </ul>	
		8.2 Use and maintain hand tools, ancillary equipment and/or accessories.	
		8.3 Prepare, set up and operate excavator cranes to lift, transfer and place a variety of loads and/or materials to given working instructions.	
		8.4 Shut down and secure excavator cranes.	
		8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify the characteristics of the crane for the lifting and transferring operation  - identify valid certification for maintenance, inspection and thorough examination  - lift and transfer people  - carry out function checks for lifting and transferring loads  - prepare, set up and reconfigure for various loads and locations  - carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  - identify characteristics, type, weight and position of loads for lifting and transferring  - recognise and determine when specific skills and knowledge are required and report accordingly  - secure and balance loads for lifting  - lift, remove and transfer loads  - position, place and set down loads  - confirm load stability, security and release  - attach and remove guide ropes and aids  - be on the public highway  - shut down and secure the crane  - use hand tools and ancillary equipment  - use, handle and store lifting accessories.	
		8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.	
		8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.	

Title:	Preparing and operating excavator cranes to lift and transfer loads in the workplace		
Additional inform	nation about this	unit	
Assessment Guida	ance	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.	
Sector subject are	eas	5.2 Building and Construction	
Availability for use		Shared unit	
Unit credit value		30	
Unit guided learning hours		100	

Title:	Preparing and operating telescopic handlers to lift and transfer loads in the workplace		
<b>Unit Number:</b> F/508/6493			
Learning outcomes  The learner will be able to:		Assessment criteria The learner can:	
Interpret the given     information relating to the     preparation and use of		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.	
telescopic handler transfer and place		1.2 Comply with information and/or instructions derived from risk assessments and method statements.	
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		<ul> <li>Describe different types of information, their source and how they are interpreted in relation to:         <ul> <li>drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of telescopic handlers to lift and transfer loads.</li> </ul> </li> </ul>	
2 Organise with oth sequence and ope	ration in	2.1 Organise the work according to given information or instructions.	
which lifting operations usi telescopic handlers are to be carried out.		2.2 Describe how to communicate ideas between team members.	
		Organise and communicate with team members and other associated occupations.	
		Describe how to organise resources prior to and during telescopic handler operations.	
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using telescopic handlers.		3.1 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.	

Title:	Preparing and workplace	d operating telescopic handlers to lift and transfer loads in the	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
4 Maintain safe and healthy working practices when preparing for and carrying out lifting operations using		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during lifting operations.	
telescopic handlers.		<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out telescopic handler operations in relation to two or more of the following: <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>safe use and storage of lifting accessories</li> <li>specific risks to health.</li> </ul> </li> </ul>	
		<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to telescopic handler use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>	
	,	4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.	
5 Request and select required quantity a of resources to pre	and quality pare for	5.1 Request and select resources associated with telescopic handlers in relation to consumables, materials, tools, ancillary equipment and/or accessories.	
and carry out telescopic handler operations.	•	<ul> <li>Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to: <ul> <li>consumables, lubricants and fuels</li> <li>attachments and lifting accessories</li> <li>hand tools, ancillary equipment and accessories.</li> </ul> </li> </ul>	
	!	5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.	

Title: Preparing an workplace		nd ope	rating telescopic handlers to lift and transfer loads in the		
	Learning outcomes		Assessment criteria		
The	e learner will be able to	D:	The le	parner can:	
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and method of work.	
			5.6	Describe how to identify weight, pressure, quantity, length and area associated with the method/procedures to lift and transfer loads using telescopic handlers.	
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	lifting and transfer	ring loads.	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	7 Complete the work within the allocated time when preparing to and lifting and transferring loads.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:	Preparing and workplace	d operating telescopic handlers to lift and transfer loads in the
Learning outcomes The learner will be able to:		Assessment criteria The learner can:
8 Comply with the given contract information to lift, transfer and place loads using telescopic handlers to the required specification.		<ul> <li>Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using telescopic handlers:</li> <li>checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down.</li> </ul>
		8.2 Use and maintain hand tools, ancillary equipment and/or accessories.
		8.3 Prepare, set up and operate telescopic handlers to lift, transfer and place a variety of loads to given working instructions.
		8.4 Shut down and secure telescopic handlers.
		<ul> <li>8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: <ul> <li>identify the characteristics of the telescopic handler for the lifting and transferring operation</li> <li>identify valid certification for maintenance, inspection and thorough examination</li> <li>lift and transfer people</li> <li>carry out function checks for lifting and transferring loads</li> <li>prepare, set up and reconfigure for various loads and locations</li> <li>carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area</li> <li>identify characteristics, type, weight and position of loads for lifting and transferring</li> </ul> </li> </ul>
		- recognise and determine when specific skills and knowledge are required and report accordingly - secure and balance loads for lifting - lift, remove and transfer loads - position, place and set down loads - confirm load stability, security and release - attach and remove guide ropes and aids - be on the public highway - shut down and secure the telescopic handler - use hand tools and ancillary equipment - use, handle and store lifting accessories.
		8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.
		8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.

Title:	Preparing and operating telescopic handlers to lift and transfer loads in the workplace			
Additional inform	ation al	bout this unit		
Assessment Guidance		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.		
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.		
		Workplace evidence of skills cannot be simulated.		
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.		
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction):		
		One of the following endorsements required:		
		Telescopic handler industrial telescope		
		Telescopic handler up to 9 metres		
		Telescopic handler all sizes		
		Telescopic handler all sizes excluding 360 degree		
		Telescopic handler all sizes including 360 degree		
Sector subject are	as	5.2 Building and Construction		
Availability for use	9	Shared unit		
Unit credit value		25		
Unit guided learni hours	ng	83		

Title:	-	Preparing and operating lorry loaders or knuckle booms to lift and transfer loads in the workplace		
<b>Unit Number:</b> D/508/6484				
Learning outcomes The learner will be able t	o:	Assessment criteria The learner can:		
Interpret the given     information relating to the     preparation and use of lorry     loaders/knuckle booms to lift,		1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.	
transfer and place		1.2	Comply with information and/or instructions derived from risk assessments and method statements.	
			Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of lorry loaders/knuckle boom to lift and transfer loads.	
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.	
lorry loaders/knuc	nich lifting operations using ry loaders/knuckle booms e to be carried out.	2.2	Describe how to communicate ideas between team members.	
		2.3	Organise and communicate with team members and other associated occupations.	
		2.4	Describe how to organise resources prior to and during lifting operations with lorry loaders/knuckle boom.	
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using lorry loaders/knuckle booms.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.	

Title: Preparing and operating lorry loaders or knuckle booms to lift and transfin the workplace		ating lorry loaders or knuckle booms to lift and transfer loads		
Learning outcomes  The learner will be able to:			sment criteria arner can:	
4 Maintain safe and healthy working practices when preparing for and carrying out lifting operations using lorry		4.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during lifting operations.	
loaders/knuckle booms.	4.2	Demonstrate compliance with given information and relevant legislation when carrying out lifting operations using lorry loaders/knuckle booms in relation to two or more of the following:  - safe use and storage of plant or machinery  - safe use and storage of tools and equipment  - safe use and storage of lifting accessories  - specific risks to health.		
		4.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to lorry loader/knuckle boom use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).	
		4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	
		4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.	
requ	5 Request and select the required quantity and quality of resources to prepare for	and quality pare for	5.1	Request and select resources associated with lorry loaders/knuckle booms in relation to consumables, materials, tools, ancillary equipment and/or accessories.
and carry out lifting opera using lorry loaders/knuckl booms.		5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and lifting accessories  - hand tools, ancillary equipment and accessories.	
		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.	

Tit	le:	Preparing ar	ng and operating lorry loaders or knuckle booms to lift and transfer loads vorkplace			
	Learning outcomes			Assessment criteria		
The	e learner will be able to	o:	The le	arner can:		
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and method of work.		
			5.6	Describe how to identify weight, bearing, pressure, quantity, length and area associated with the method/procedures to carry out lifting operations with lorry loaders/knuckle booms.		
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and lifting and transferring loads.		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.		
			6.2	Prevent damage and maintain a clean work space.		
			6.3	Dispose of waste in accordance with current legislation.		
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.		
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.		
7	allocated time when preparing	en preparing	7.1	Demonstrate completion of the work within the allocated time.		
	to and lifting and transferring loads.		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.		

Title:	Preparing and in the workpla	ng and operating lorry loaders or knuckle booms to lift and transfer loads orkplace	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
8 Comply with the given contract information to lift, transfer and place loads using lorry loaders/knuckle booms to the required specification.		<ul> <li>8.1 Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using lorry loaders/knuckle booms:</li> <li>- checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down.</li> </ul>	
		8.2 Use and maintain hand tools, ancillary equipment and/or accessories.	
		8.3 Prepare, set up and operate lorry loaders/knuckle booms to lift, transfer and place a variety of loads to given working instructions.	
		8.4 Shut down and secure lorry loaders/knuckle booms.	
		<ul> <li>8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: <ul> <li>identify the characteristics of the lorry loader/knuckle boom for the lifting and transferring operation</li> <li>identify valid certification for maintenance, inspection and thorough examination</li> <li>lift and transfer people</li> <li>carry out function checks for lifting and transferring loads</li> <li>prepare, set up and reconfigure for various loads and locations</li> <li>carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area</li> <li>identify characteristics, type, weight and position of loads for lifting and transferring</li> </ul> </li> </ul>	
		8.6  - recognise and determine when specific skills and knowledge are required and report accordingly - secure and balance loads for lifting - lift, remove and transfer loads - position, place and set down loads - confirm load stability, security and release - attach and remove guide ropes and aids - be on the public highway - shut down and secure the lorry loader/knuckle boom - use hand tools and ancillary equipment - use, handle and store lifting accessories.	
		8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.	
		8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.	

Title:	Preparing and operating lorry loaders or knuckle booms to lift and transfer loads in the workplace		
Additional information about this unit			
Assessment Guida	ance	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.	
Sector subject areas		5.2 Building and Construction	
Availability for use		Shared unit	
Unit credit value		30	
Unit guided learning hours		100	

Title:	Preparing and operating trailer-mounted concrete pumps to receive, pump and discharge materials in the workplace			
<b>Unit Number:</b> H/508/6504				
Learning outcomes The learner will be able t	o:		sment criteria arner can:	
Interpret the given     information relating to the     preparation and use of     concrete pumps to carry out		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.	
pumping and discl operations.	-	1.2	Comply with information and/or instructions derived from risk assessments and method statements.	
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  — drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of trailer-mounted concrete pumps.	
2 Organise with other	ration in	2.1	Organise the work according to given information or instructions.	
which pumping an discharging opera- concrete pumps a	tions using re to be	2.2	Describe how to communicate ideas between team members.	
carried out.		2.3	Organise and communicate with team members and other associated occupations.	
		2.4	Describe how to organise resources prior to and during concrete pumping operations.	
3 Know how to comply with relevant legislation and official guidance when carrying out pumping and discharging operations using concrete pumps.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  — in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.	

Tit	le:		nd operating trailer-mounted concrete pumps to receive, pump and aterials in the workplace	
Learning outcomes  The learner will be able to:			sment criteria	
4 Maintain safe and healthy working practices when preparing for and carrying out pumping operations using		4.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during concrete pumping operations.	
concrete pumps.	4.2	Demonstrate compliance with given information and relevant legislation when carrying out pumping operations using trailer-mounted concrete pumps in relation to two or more of the following:  - safe use and storage of plant or machinery  - safe use and storage of tools and equipment  - specific risks to health.		
			4.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to concrete pump use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).
			4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
			4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
5	required quantity and quality of resources to prepare for	and quality epare for	5.1	Request and select resources associated with concrete pumps in relation to consumables, materials, tools, ancillary equipment and/or accessories.
and carry out pumping operations using concrete pumps.	5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments, pumping and discharging aids  - hand tools, ancillary equipment and accessories.		

Tit	le:		ng and operating trailer-mounted concrete pumps to receive, pump and se materials in the workplace		
Learning outcomes			sment criteria		
The	e learner will be able to	o:	The le	arner can:	
5 Continued		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.		
			5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, quantity, pressure, length and area associated with the method/procedures to carry out concrete pumping operations.	
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	pumping materials concrete pumps.	using	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	7 Complete the work within the allocated time when preparing to and pumping and discharging materials using concrete pumps.	en preparing	7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:		and operating trailer-mounted concrete pumps to receive, pump and naterials in the workplace	
Learning outcomes The learner will be able to:		ssessment criteria ne learner can:	
8 Comply with the given contract information to receive, pump and discharge materials using concrete pumps to the required		<ul> <li>Demonstrate the following work skills when preparing for and pumping and discharging materials using concrete pumps:         <ul> <li>checking, adjusting, communicating, manoeuvring, positioning, receiving, depositing, pumping, discharging and cleaning.</li> </ul> </li> </ul>	
specification.	8.	2 Use and maintain hand tools, ancillary equipment and/or accessories.	
	8.	Prepare to, position, set up and operate trailer-mounted concrete pumps to receive, pump and discharge materials, at various locations, to given working instructions.	
	8.	4 Shut down and secure concrete pumps.	
	8.	<ul> <li>procedures, report problems and establish authority needed to rectify, to:         <ul> <li>identify the characteristics of the concrete pump used for pumping and discharging work</li> <li>carry out function checks to receive, pump and discharge materials</li> <li>identify characteristics, type and volume of loads to receive, pump and discharge</li> <li>prepare, set up and adjust for operational requirements</li> <li>carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area</li> </ul> </li> </ul>	
	8.	7 Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out pumping and discharging operations.	
	8.	8 Describe how to maintain the plant and machinery, hand tools and ancillary equipment used pumping and discharging operations.	

Title:	Preparing and operating trailer-mounted concrete pumps to receive, pump and discharge materials in the workplace			
Additional inform	Additional information about this unit			
Assessment Guida	ance	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.		
Sector subject are	eas	5.2 Building and Construction		
Availability for use		Shared unit		
Unit Credit value		18		
Unit guided learning hours		60		

Title:	Preparing and operating boom-type mobile elevating work platforms (MEWP) in the workplace		
<b>Unit Number:</b> F/508/6509			
Learning outcome The learner will be a		Assessment criteria The learner can:	
Interpret the given     information relating to the     preparation and using boom- type MEWPs to access areas		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information.	
to carry out th		1.2 Comply with information and/or instructions derived from risk assessments and method statements.	
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		<ul> <li>Describe different types of information, their source and how they are interpreted in relation to:         <ul> <li>drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of plant and machinery used as work platforms.</li> </ul> </li> </ul>	
2 Organise with sequence and	operation in	2.1 Organise the work according to given information or instructions.	
which accessir using boom-ty to be carried c	pe MEWPs are	2.2 Describe how to communicate ideas between team members.	
		2.3 Organise and communicate with team members and other associated occupations.	
		2.4 Describe how to organise resources prior to and during accessing operations.	
3 Know how to comply with relevant legislation and official guidance when carrying out accessing operations using boom-type MEWPs.		<ul> <li>Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:         <ul> <li>in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.</li> </ul> </li> </ul>	
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.	

Title:	Preparing and o	Preparing and operating boom-type mobile elevating work platforms (MEWP) in the workplace	
_	Learning outcomes  The learner will be able to:		sment criteria arner can:
4 Maintain safe and healthy working practices when preparing for and carrying out accessing operations using		4.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during accessing operations.
boom-type MEWPs.	4.2	Demonstrate compliance with given information and relevant legislation when carrying out accessing operations using boom-type MEWPs in relation to two or more of the following:  - safe use and storage of plant or machinery  - safe use and storage of tools and equipment  - specific risks to health.	
		4.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to accessing operations, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).
		4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
		4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries, other task-related activities and rescue plans.
of resources t	ntity and quality o prepare for	5.1	Request and select resources associated with boom-type MEWPs in relation to consumables, materials, tools, ancillary equipment and/or accessories.
and carry out accessing operations using boom-type MEWPs.	-	5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and accessing aids  - hand tools, ancillary equipment and accessories.
		5.3	Describe how the resources should be used correctly, how problems associated with the resources are reported.

Tit	le:	Preparing and operating boom-type mobile elevating work platforms (MEWP) in the workplace			
	Learning outcomes		Assessment criteria		
The	e learner will be ab	ole to:	The le	earner can:	
5 c	5 continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to operate boomtype mobile elevating work platforms used for accessing operations.	
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	accessing work	areas.	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	Complete the work within the allocated time when preparing to and accessing work areas using boom-type MEWPs.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title: Preparing and o workplace		perating boom-type mobile elevating work platforms (MEWP) in the		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
8 Comply with the given contract information to access areas to carry out work using boom-type MEWPs to the		8.1 Demonstrate the following work skills when preparing for and accessing work areas using boom-type MEWPs:  - checking, setting up, adjusting, communicating, manoeuvring, positioning, accessing and setting down.		
required specif	ication.	8.2 Use and maintain hand tools, ancillary equipment and/or accessories.		
		8.3 Prepare for, position, set up and operate boom-type MEWPs to access working areas, at various locations, to given working instructions.		
		8.4 Shut down and secure boom-type MEWPs.		
		<ul> <li>Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: <ul> <li>identify the characteristics of the boom-type MEWP used for accessing work</li> <li>identify valid certification for maintenance, inspection and thorough examination</li> <li>carry out function checks for accessing operation</li> <li>prepare, set up and adjust for operational requirements</li> <li>carry out pre-operational checks for obstructions, stability, and ground conditions affecting the work and surrounding area</li> <li>identify and remain aware of the area of operation to include potential entrapment situations</li> <li>use fall prevention equipment</li> </ul> </li> </ul>		
		<ul> <li>check to avoid damage to structures and utilities service apparatus</li> <li>position and secure MEWP for accessing operations</li> <li>recognise and determine when specific skills and knowledge are required and report accordingly</li> <li>operate, manoeuvre, position, set down and secure</li> <li>operate and travel on the public highway</li> <li>shut down and secure the MEWP</li> <li>use hand tools, ancillary equipment and accessories.</li> </ul> 8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing to		
		and carrying out accessing operations.  8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment used to access working areas.		

Title:	Preparing and operating boom-type mobile elevating work platforms (MEWP) in the workplace				
Additional informa	ation about this unit				
Assessment Guida	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.  This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.  ProQual Level 2 NVQ Diploma in Plant Operations (Construction):  One of the following endorsements required:  Mobile elevated working platform book vehicle mounted Mobile elevated platform boom self-propelled				
Sector subject area	as 5.2 Building and Construction				
Availability for use	Shared unit				
Credit value	14				
Unit guided learnin					

Title:	Slinging and hand signalling the movement of suspended loads in the workplace			
<b>Unit Number:</b> A/508/6525				
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
Interpret the given     information relating to the     preparation for and the		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments, method statements (lift plans) and manufacturers' information.	
slinging and signal	ling of loads.	1.2	Comply with information and/or instructions derived from risk assessments and method statements.	
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, lift plans, work instructions, manufacturers' information, approved procedures and Codes of Practice.	
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.	
which the slinging signalling of loads carried out.		2.2	Describe how to communicate ideas between team members.	
		2.3	Organise and communicate with team members and other associated occupations.	
		2.4	Describe how to organise resources prior to and when slinging and signalling of loads.	
3 Know how to comply with relevant legislation and official guidance to carry out slinging and signalling of loads.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  – in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.	

Title: Slinging and		hand signalling the movement of suspended loads in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing for and slinging and signalling loads.		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements when slinging and signalling loads.		
		<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out the slinging and signalling of loads in relation to at least three of the following: <ul> <li>safe use and storage of tools and equipment</li> <li>safe use, storage and handling of lifting accessories</li> <li>safe use of access equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>		
		<ul> <li>4.3 Explain why and when health and safety control_equipment, identified by the principles of protection, should be used, relating to slinging and signalling of loads, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>		
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Select the required and quality of resor	urces to en slinging	5.1 Select resources associated with slinging/signalling in relation to lifting accessories/aids, hand tools and ancillary equipment.		
and signalling loads		<ul> <li>Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:         <ul> <li>lifting accessories</li> <li>signalling and communication equipment</li> <li>hand tools and ancillary equipment.</li> </ul> </li> </ul>		
		5.3 Describe how the resources should be used correctly, and how problems associated with the resources are reported.		

Tit	Title: Slinging and hand signalling the movement of suspended loads in the workpla			signalling the movement of suspended loads in the workplace	
	Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out slinging/signalling.	
6	Minimise the risk of to the work and su area when prepari	surrounding ring to and	6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	slinging and signalling loads.		6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	Complete the work within the allocated time when preparing to and slinging and signalling loads.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title: Slinging and		nand signalling the movement of suspended loads in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
8 Comply with the given contract information to prepare to and sling and signal suspended loads for movement to the required specification.		<ul> <li>Demonstrate the following work skills when preparing to and slinging and signalling loads:         <ul> <li>measuring, gauging, estimating, calculating, fitting, fixing, testing, balancing, interpreting, inspecting, judging, explaining, preparing, indicating, informing, instructing, signing, positioning, adjusting, configuring, moving, securing, signalling and relaying.</li> </ul> </li> </ul>		
		8.2 Use and maintain lifting accessories, lifting aids and equipment.		
		8.3 Inspect and prepare lifting accessories prior to slinging.		
		<ul> <li>8.4 Prepare to and attach suspended loads to lifting equipment, using appropriate lifting accessories and load securing methods, to given working instructions for three of the following: <ul> <li>balanced</li> <li>unbalanced</li> <li>loose</li> <li>bundled</li> <li>container</li> <li>drum</li> <li>a load where the machine operator cannot observe its full movement path.</li> </ul> </li> </ul>		
		<ul> <li>8.5 Guide, move and place suspended loads to specified destinations, using hand signals, to given working instructions for three of the following: <ul> <li>balanced</li> <li>unbalanced</li> <li>loose</li> <li>bundled</li> <li>container</li> <li>drum</li> <li>a load where the machine operator cannot observe its full movement path.</li> </ul> </li> </ul>		
		<ul> <li>Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:         <ul> <li>identify the differences between: slinging and signalling, directing and guiding movement of vehicles, plant and machinery, and directing and guiding operations of plant and machinery not being used for lifting operations</li> <li>confirm the authority, duties and responsibilities allocated</li> <li>identify characteristics of lifting equipment and lifting accessories</li> <li>identify and interpret valid certification for maintenance, inspection and thorough examination</li> </ul> </li> </ul>		

Title:	Slinging and hand s	and hand signalling the movement of suspended loads in the workplace		
Learning outcomes The learner will be able to		Assessment criteria The learner can:		
8 Continued	8.7	<ul> <li>lift and transfer people</li> <li>sling balanced, unbalanced, loose, live, bundled, container drum loads and loads that are blind to the equipment operator</li> <li>communicate using hand signals, hand signalling equipment (lights, wands, fluorescent gloves, flags) and electronic communication equipment (loud hailers, radios)</li> <li>confirm methods of communication</li> <li>recognise blind-spots, potential crush zones and other limitations to driver visibility</li> <li>consider the load characteristics including centre of gravity and lifting points to determine the method of slinging</li> <li>determine and check the route of the load before and during the lift including distances, clearances and landing position</li> <li>select, handle, inspect and use (assemble, set up and adjust) lifting accessories and aids</li> </ul>		
		<ul> <li>identify rejection criteria for removing lifting accessories from service</li> <li>recognise and determine when specific skills and knowledge are required and report accordingly</li> <li>attach lifting accessories and sling loads securely</li> <li>ensure balance and stability of loads</li> <li>attach and use load guidance equipment (tag lines)</li> <li>guide and place suspended loads by recognised methods of communication and agreed operational procedures</li> <li>land and position loads safely and securely</li> <li>remove and store lifting accessories</li> <li>use hand tools and ancillary equipment.</li> </ul>		
	8.9	Describe the needs of other occupations and how to communicate within a team when preparing to and slinging and signalling loads.		
	8.10	Describe how to maintain the lifting accessories, lifting aids and signalling and communication equipment used to sling and signal loads.		

	Slinging and hand signalling the movement of suspended loads in the workplace				
Additional informa	tion about this unit				
Assessment Guidan	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.  This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.  ProQual Level 2 NVQ Diploma in Plant Operations (Construction):				
	The following endorsement required (i.e. own area of work):  Slinger signaller – erector and dismantler only				
Sector subject areas	5.2 Building and Construction				
Availability for use	Shared unit				
Unit credit value	10				
Unit guided learning hours	g 33				

Title: Op	Operating plant or machinery for non-operational activities in the workplace			
<b>Unit Number:</b> F/508/6526				
Learning outcomes The learner will be able	to:	Assessment criteria The learner can:		
Interpret the given     information relating to the     work and resources when     operating plant or     machinery for non-		1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments, user manuals and manufacturers' information related to the plant or machinery operation and the activity to be completed.	
operational activit	ties	1.2	Comply with information and/or instructions derived from risk assessments and method statements.	
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  — drawings, specifications, schedules, method statements, risk assessments, user manuals, manufacturers' information and current regulations governing the operation of plant and machinery	
2 Organise with oth sequence in which	n the work	2.1	Organise the work in accordance with given information or instructions.	
is to be carried ou operating plant or machinery for nor operational activit	· 1-	2.2	Communicate with team members and other associated occupations about the plant or machinery operation and work to be carried out.	
		2.3	Describe how to communicate ideas between team members and other associated occupations.	
		2.4	Describe how to organise resources in conjunction with the progress of work.	
3 Know how to come relevant, current less special legal status documents, official guidance and organ procedures when expressions.	nt legislation, atus ficial organisational	3.1	Describe their responsibilities regarding potential accidents and health hazards, whilst working:  — in the workplace, below ground level, at height, in confined spaces, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
plant or machiner operational activit	-	3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.	

Title:	Operating plant or machinery for non-operational activities in the workplace		
Learning outcomes  The learner will be able to:			sment criteria arner can:
4 Maintain safe and healthy working practices when operating plant or machinery for nonoperational activities.		4.1	Use health and safety control equipment and access equipment (if applicable) safely to carry out the activity in accordance with current legislation and organisational requirements when operating plant or machinery for non-operational activities.
			Comply with information relating to specific risks to health when operating plant or machinery for non-operational activities.
		4.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to operating plant or machinery for non-operational activities and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).
		4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given instructions.
		4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards.

Title: Operating plan		nt or m	achinery for non-operational activities in the workplace	
	Learning outcomes			sment criteria
The learner will be able to:  5 Request and select the required quantity and quality of resources to		5.1	Request and select resources associated with own work in relation to tools, ancillary equipment and/or accessories and consumables.	
	operate plant or machinery for non-operational activities.	5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:  — consumables — hand tools, ancillary equipment and/or accessories.	
			5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.
			5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.
			5.5	Describe any potential hazards associated with the resources and methods of work.
			5.6	Describe how to calculate weight, bearing pressure, quantity, length and area associated with the method/procedure to operate plant or machinery for non-operational activities.
6	Minimise the risk to the work and surrounding area	ıd	6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	operating plant or machinery for non-		6.2	Minimise damage and maintain a clean work space.
	operational activit	<u> </u>	6.3	Dispose of waste in accordance with current legislation.
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	Complete the wor		7.1	Demonstrate completion of the work within the allocated time.
	operating plant or machinery for nor operational activit	۱-	7.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:  – types of progress charts, timetables and estimated times  – organisational procedures for reporting circumstances which will affect the work programme.

Title:	Operating plan	nt or m	achinery for non-operational activities in the workplace		
Learning outcomes The learner will be able to:			Assessment criteria The learner can:		
8 Comply with the given contract information to operate plant or machinery for non-operational activities to the required		8.1	Demonstrate the following work skills when operating plant or machinery for non-operational activities:  — preparing, setting up, configuring, starting, manoeuvring, running, supporting, parking, stopping and securing.		
specification.		8.2	Prepare, configure and operate plant or machinery for non-operational activities, (inspection, repair, maintenance, testing or travel), to given working instructions for two of the following:  - hand-operated power tools  - static machinery  - pedestrian controlled equipment  - tracked plant  - wheeled plant  - rollers.		
		8.3	Shut down and secure plant or machinery to given working instructions.		
		8.4	Record and report findings using the appropriate method, in accordance with given working instructions.		
		8.5	Safely use plant, machinery, hand tools, ancillary equipment and/or accessories.		
		8.6	Safely store the plant, machinery, tools, equipment and/or accessories used when operating plant or machinery for non-operational activities.		

Title:	Operating pla	perating plant or machinery for non-operational activities in the workplace			
Learning outcomes The learner will be able to:		Assessment criteria			
		The learner can:			
8 Continued		8.7 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:  - identify capabilities, characteristic and limitations of plant and machinery (ride on and remote control) including hand-operated power tools, static machinery, pedestrian controlled equipment, wheeled plant and tracked plant, rollers  - consider the area available for the movements required (height restrictions, obstructions, overhead / underground obstructions, services, ventilation and point loading)  - complete pre-use, pre-start and pre-movement checks  - prepare the plant and machine for operation  - manoeuvre and position plant and machine  - manoeuvre plant and machinery on slopes and inclines, uneven terrain, rough terrain, uncompacted ground, areas with restricted clearances, in inclement and extreme weather and areas where there is other vehicle and pedestrian traffic  - operate plant and machinery within operational limitations  - support plant and machinery for the activity (inspection, repair, maintenance, testing or travel)  - follow signals and instructions  - shut down, park and secure plant and machine immobilise plant and machinery  - prepare plant and machinery for transportation  - report findings and defects  - use hand tools, ancillary equipment and accessories  - work at height  - use access equipment  - complete and maintain records			
		effectively communicate within a team when operating plant or machinery for non-operational activities.			
		8.9 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and/or accessories used when operating plant or machinery for non-operational activities.			

Title:	Operating plant or machinery for non-operational activities in the workplace					
Additional inform	ditional information about this unit					
Assessment Guida	ance	This unit must be assessed in a work environment and in accordance with the ConstructionSkills 'Consolidated Assessment Strategy for Construction and the Built Environment.				
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge.				
		Workplace evidence of skills cannot be simulated.				
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.				
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction):				
		<b>Two</b> of the following endorsements required:				
		Hand-operated power tools				
		Static machinery				
		Pedestrian controlled power equipment				
		Tracked plant				
		Wheeled plant				
		Rollers				
Sector Subject Are	eas	5.2 Building and Construction				
Availability for use	9	Shared unit				
Unit credit value		10				
Unit guided learni hours	ng	33				

Title: Preparing ar		nd oper	rating road/rail adapted plant in the workplace		
<b>Unit Number:</b> J/508/6527					
Learning outcomes The learner will be able to:			Assessment criteria The learner can:		
Interpret the given     information relating to the     preparation and use of     road/rail plant and the work to		1.1	Interpret and extract relevant information from drawings, specifications, schedules, work package plans, method statements, risk assessments and manufacturers' information.		
be carried out.		1.2	Comply with information and/or instructions derived from risk assessments and method statements.		
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.		
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, lift plans, work package plans, risk assessments, certification and manufacturers' information for the operation of road/rail plant.		
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.		
which road/rail pla operations are to b out.		2.2	Describe how to communicate ideas between team members.		
		2.3	Organise and communicate with team members and other associated occupations.		
		2.4	Describe how to organise resources prior to and during road/rail plant operations.		
3 Know how to comply with relevant legislation and official guidance when preparing to and carrying out road/rail plant operations.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  — in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.		
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.		
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.		

Title: Preparing and operating roa		d opera	ting road/rail adapted plant in the workplace	
Learning outcomes		Assessment criteria		
4 Maintain safe and healthy working practices when preparing for and carrying out road/rail plant operations.		4.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during road/rail plant operations.	
			Demonstrate compliance with given information and relevant legislation when carrying out road/rail plant operations in relation to two or more of the following:  - safe use and storage of plant or machinery  - safe use of tools and equipment  - specific risks to health.	
			Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to road/rail plant operations, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  — collective protective measures  — personal protective equipment (PPE)  — respiratory protective equipment (RPE)  — local exhaust ventilation (LEV).	
			Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	
		; :	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.	
required quantity of resources to pro	5 Request and select the required quantity and quality of resources to prepare for		Request and select resources associated with the work in relation to consumables, materials, tools, ancillary equipment, attachments and/or accessories.	
and carry out road/rail plant operations.	ıyran piant		Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, fittings, fuels, oils and lubricants  - hand tools, ancillary equipment and accessories.	
			Describe how the resources should be used correctly and how problems associated with the resources are reported.	
			Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	

Tit	le:	Preparing ar	Preparing and operating road/rail adapted plant in the workplace		
Learning outcomes The learner will be able to:			Assessment criteria The learner can:		
5 Continued		5.5	Describe any potential hazards associated with the resources and methods of work.		
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out the work.	
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	operating road/rai	i piant.	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	7 Complete the work within the allocated time when preparing to and operating road/rail plant.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:	Preparing and op	perating road/rail adapted plant in the workplace
Learning outcomes The learner will be able to:		essment criteria learner can:
8 Comply with the given contract information to prepare for and operate road/rail plant to the required specification.	ven 8.1 on to perate	
Specificación.	8.2	Use and maintain hand tools, ancillary equipment, attachments and/or accessories.
	8.3	Prepare and operate road/rail adapted plant by placing on and off the rails, travelling to the work area and carrying out operations to given working instructions for one or more of the following:  - lift, carry and/or transfer  - extract  - excavate  - construct and/or form  - receive and/or transport  - access as a work platform  - lay and/or distribute  - compact  - demolish and/or process.
	8.4	Shut down and secure road/rail plant.
	8.5	<ul> <li>procedures, report problems and establish authority needed to rectify, to:         <ul> <li>identify the characteristics of the road/rail plant for rail operations</li> <li>prepare, set up and adjust for operational requirements</li> <li>operate, maintain, shut down and secure road rail plant and machinery</li> <li>identify the documentation and certification requirements for road rail plant, machinery, equipment and attachments</li> <li>operate radios</li> <li>recognise current signalling systems in use for road/rail plant</li> <li>place plant and machine on and off the rails</li> <li>identify the criteria for movements within possessions</li> <li>recognise and avoid damage to axle counter equipment, force transducers and accelerometers</li> </ul> </li> </ul>
	8.6	<ul> <li>avoid damage to infrastructure, including track, line-side and under-track equipment supporting structures, routes of cables and services</li> <li>work on cants or gradients</li> <li>negotiate points and crossings</li> <li>move failed machines</li> <li>recognise and determine when specific skills and knowledge are required and report accordingly</li> <li>be on the public highway</li> <li>shut down and secure road/rail plant</li> <li>use hand tools, ancillary equipment and accessories.</li> </ul>

Title:	Preparing and operating road/rail adapted plant in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
8 Continued		8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out road/rail plant operations.
		8.8	Describe how to maintain the hand tools, plant and machinery and ancillary equipment used for road/rail plant operations.

Title:	Fitle: Preparing and operating road/rail adapted plant in the workplace					
Additional information about this unit						
Assessment Guida	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.					
	Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.					
	Workplace evidence of skills cannot be simulated.					
	This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.					
	ProQual Level 2 NVQ Diploma in Plant Operations (Construction):					
	One of the following endorsements required:					
	Road rail – forward tipping dumper Road rail – MEWP scissor Road rail – MEWP boom Road rail – crawler tractor/dozer Road rail – knuckle boom crane Road rail – dump truck – articulated chassis Road rail – dump truck – rigid chassis Road rail – excavator 360 degree wheeled Road rail – excavator 360 degree tracked Road rail – excavator crane Road rail – crane Road rail – rough terrain forklift truck Road rail – telescopic handler Road rail – agricultural tractor					
Sector subject are	as 5.2 Building and Construction					
Availability for use	Shared unit					
Unit credit value	8					
Unit guided learni hours	ng 26					

Title: Preparing and operating plant or machinery attachme		ting plant or machinery attachments in the workplace			
<b>Unit Number:</b> L/508/6528					
Learning outcomes The learner will be ab			Assessment criteria The learner can:		
Interpret the given     information relating to the     preparation and use of		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.		
plant or machinattachments.	nery	1.2	Comply with information and/or instructions derived from risk assessments and method statements.		
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.		
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing plant and machinery attachments.		
2 Organise with a sequence and a	operation of	2.1	Organise the work according to given information or instructions.		
plant or machin	•	2.2	Describe how to communicate ideas between team members.		
		2.3	Organise and communicate with team members and other associated occupations.		
		2.4	Describe how to organise resources prior to and during attachment use.		
3 Know how to c relevant legisla official guidanc preparing and machinery atta	etion and se when using plant or	3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  — in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting applicable to attachment use.		
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.		
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.		

Title:	Preparing and operating plant or machinery attachments in the workplace				
Learning outcomes			sment criteria		
The learner will be abl			The learner can:		
4 Maintain safe and healthy working practices when preparing for and using plant or machinery		4.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements when using attachments.		
attachments.		4.2	Demonstrate compliance with given information and relevant legislation when carrying out plant or machinery operations using attachments in relation to two or more of the following:  - safe use and storage of plant or machinery  - safe use and storage of tools and equipment  - specific risks to health.		
		4.2	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to use of plant or machinery attachments, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).		
		4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
		4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other particular task-related activities.		
5 Request and sel required quanti quality of resou	ity and irces to		Request and select resources associated with own work in relation to consumables, materials, attachments, tools and ancillary equipment.		
prepare for and use plant or machinery attachments.		Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  – fittings, fuels, oils and lubricants  – attachments, accessories  – hand tools and ancillary equipment.			
		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Tit	le:	Preparing and operating plant or machinery attachments in the workplace		
Learning outcomes  The learner will be able to:		Assessment criteria The learner can:		
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedure to carry out the work using relevant attachments.
6	to the work and surrounding area when		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	preparing for a plant or machi	_	6.2	Prevent damage and maintain a clean work space.
	attachments.		6.3	Dispose of waste in accordance with current legislation
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	7 Complete the work within the allocated time when		7.1	Demonstrate completion of the work within the allocated time.
	preparing to a or machinery a	• .	7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.

Title: Preparing and		operating plant or machinery attachments in the workplace
Learning outcomes		Assessment criteria
The learner will be al	ble to:	The learner can:
8 Comply with the given contract information to prepare for and operate plant or machinery attachments to the required		<ul> <li>8.1 Demonstrate the following work skills when preparing for and using attachments:         <ul> <li>preparing, configuring, aligning, fitting, connecting, fastening, adjusting, securing, checking, manoeuvring, operating, disconnecting, removing and storing.</li> </ul> </li> </ul>
specification.		8.2 Use and maintain hand tools, ancillary equipment and/or accessories.
	8.3 Prepare, fit and operate plant or machinery attachments to given working instructions for one or more of the following tasks:  - lift and transfer - cut, shear or sever - bore or drill - drive - hammer - vibrate - removal - compact or level - mixing - access (as a work platform) - demolish or process.	
		8.4 Remove attachments from host plant following operations and leave in a safe situation.
		8.5 Shut down and secure the host item of plant and attachment.
		8.6 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify relevant attachment documentation  - select attachment compatible to the plant and machinery for: lifting, transferring, cutting, shearing, severing, boring, drilling, driving, hammering, vibrating, removing, compacting, levelling, mixing, accessing, demolishing and processing  - configure host plant or machinery to accept attachments  - fit attachments  - operate, maintain, manoeuvre, shut down and secure plant with an attachment
		- recognise and determine when specific skills and knowledge are required and report accordingly - recognise signals to fit and remove attachments - disconnect attachments - remove attachments and move plant and machinery - secure and store attachments - transport attachments - use hand tools and equipment.

Title:	Preparing and operating plant or machinery attachments in the workplace		
Learning outcomes The learner will be able to:			ssment criteria varner can:
8 Continued		8.8	Describe the needs of other occupations and how to effectively communicate within a team when preparing for and using plant or machinery attachments.
		8.9	Describe how to maintain the plant and machinery, hand tools, attachments and ancillary equipment used to carry out the work.

Title:	Prep	eparing and operating plant or machinery attachments in the workplace				
Additional inform	Additional information about this unit					
Assessment Guidance		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.				
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.				
		Workplace evidence of skills cannot be simulated.				
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.				
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction):  One of the following endorsements required:				
		Rail thimble				
		Rail flail				
		Rail ballast brush				
		Rail ballast/material movement vacuum unit				
		Rail hydraulic rail beam				
		Rail hydraulic sleeper grab				
		Rail trailer				
		Rail tamper				
		Rail vacuum lifter				
		Rail grapple/log grab				
		Auger				
		Sweeper				
		Pecker/hammer				
		Mower				
		Grab				
		Roller				
		Mobile work platform				
		Fork Lifthook				
		Bucket				
		Lifting jib				
		Crusher				
Costor subject area		5.2 Building and Construction				
Sector subject are						
Availability for use	=	Shared unit				
Unit credit value		7				
Unit guided learning hours		23				

Title:		Moving, handling and storing resources in the workplace			
<b>Unit Number:</b> Y/508/6533					
Learning outcomes The learner will be able to:			sment criteria arner can:		
Comply with given     information when moving,     handling and/or storing		1.1	Interpret the given information relating to moving, handling and/or storing resources, relevant to the given occupation.		
re	esources.		1.2	Interpret the given information relating to the use and storage of lifting aids and equipment.	
			1.3	Describe the different types of technical, product and regulatory information, their source and how they are interpreted.	
			1.4	State the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
			1.5	Describe how to obtain information relating to using and storing lifting aids and equipment.	
re of m	2 Know how to comply with relevant legislation and official guidance when moving, handling and/or storing resources.		2.1	Describe their responsibilities under current legislation and official guidance whilst working:  — in the workplace, in confined spaces, below ground level, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
			2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
			2.3	Explain what the accident reporting procedures are and who is responsible for making the reports.	
			2.4	State the appropriate types of fire extinguishers relevant to the work.	
			2.5	Describe how and when the different types of fire extinguishers, relevant to the given occupation, are used in accordance with legislation and official guidance.	
pr ha	3 Maintain safe working practices when moving, handling and/or storing resources.		3.1	Use health and safety control equipment safely to carry out the activity in accordance with legislation and organisational requirements when moving, handling and/or storing resources.	
			3.2	Use lifting aids safely as appropriate to the work.	

Title:	Moving, handl	ing and	d storing resources in the workplace	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
3 continued		3.3	Protect the environment in accordance with safe working practices as appropriate to the work.	
		3.4	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to moving, handling and/or storing resources, and the types, purpose and limitations of each type, the work situation, occupational use and the general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).	
			Describe how the health and safety control equipment relevant to the work should be used in accordance with the given instructions.	
		3.6	State how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards.	
and quality o	quired quantity f resources for	4.1	Select the relevant resources to be moved, handled and/or stored, associated with own work.	
the methods move, handle occupational	and/or store 4.2	4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the occupational resources in relation to:  - lifting and handling aids - container(s) - fixing, holding and securing systems.	
		4.3	Describe how the resources should be handled and how any problems associated with the resources are reported.	
	4.4	4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
		4.5	Describe any potential hazards associated with the resources and methods of work.	

Title: Moving, ha	andling and storing resources in the workplace
Learning outcomes The learner will be able to:	Assessment criteria The learner can:
5 Prevent the risk of damage to occupational resources and surrounding	area from damage in accordance with safe working practices and organisational procedures.
environment when movir handling and/or storing resources.	5.2 Dispose of waste and packaging in accordance with legislation.
	5.5 Explain why the disposal of waste should be carried safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
6 Complete the work within the allocated time when	6.1 Demonstrate completion of the work within the allocated time.
moving, handling and/or storing resources.	6.2 State the purpose of the work programme and explain why deadlines should be kept in relation to:  – progress charts, timetables and estimated times  – organisational procedures for reporting circumstances which will affect the work programme.
7 Comply with the given occupational resource information to move, handle and/or store	<ul> <li>7.1 Demonstrate the following work skills when moving, handling and/or storing occupational resources:         <ul> <li>moving, positioning, storing, securing and/or using lifting aids and kinetic lifting techniques.</li> </ul> </li> </ul>
resources to the required guidance.	<ul> <li>7.2 Move, handle and/or store occupational resources to meet product information and organisational requirements relating to three of the following: <ul> <li>sheet material</li> <li>loose material</li> <li>bagged or wrapped material</li> <li>fragile material</li> <li>tools and equipment</li> <li>components</li> <li>liquids.</li> </ul> </li> </ul>
	7.3 Describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them when moving, handling and/or storing occupational resources.
	7.4 Describe the needs of other occupations when moving, handling <b>and/or</b> storing resources.

Title:	Moving, handling and storing resources in the workplace			
Additional inform	Additional information about this unit			
Assessment Guidance		This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.		
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.		
		Workplace evidence of skills cannot be simulated.		
Sector Subject Areas		5.2 Building and Construction		
Availability for use	9	Shared unit		
Unit credit value		5		
Unit guided learning hours		17		

Title:	Preparing and operating crawler cranes above 10 tonnes to lift and transfer loads in the workplace		
Unit Number: H/508/6566			
Learning outcomes The learner will be able t	o:		sment criteria arner can:
Interpret the given     information relating to the     preparation and use of crawler		1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.
cranes to lift, transplace loads.	ster and	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of crawler cranes to lift and transfer loads.
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
which lifting opera crawler cranes are carried out.	_	2.2	Describe how to communicate ideas between team members.
			Organise and communicate with team members and other associated occupations.
		2.4	Describe how to organise resources prior to and during lifting operations with crawler cranes.
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using crawler cranes.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  – in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

Title:	Preparing and operating crawler cranes above 10 tonnes to lift and transfer loads in the workplace			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out lifting operations using crawler		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during lifting operations.		
cranes.		<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out lifting operations using crawler cranes in relation to two or more of the following:         <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>safe use and storage of lifting accessories</li> <li>specific risks to health.</li> </ul> </li> </ul>		
		<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to crawler crane use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>		
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
required quantity a of resources to pre	required quantity and quality of resources to prepare for	5.1 Request and select resources associated with crawler cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
and carry out lifting operations using crawler cranes.	5.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and lifting accessories  - hand tools, ancillary equipment and accessories.			
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Title: Preparing and loads in the w		-	rating crawler cranes above 10 tonnes to lift and transfer lace		
	Learning outcomes		Assessment criteria		
The	e learner will be able to	D:	The le	arner can:	
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and method of work.	
			5.6	Describe how to identify weight, bearing, pressure, quantity, length and area associated with the method/procedures to carry out lifting operations with crawler cranes.	
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and lifting and transferring loads.		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
			6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	7 Complete the work within the allocated time when preparing to and lifting and transferring loads.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:	Preparing and o loads in the wor	perating crawler cranes above 10 tonnes to lift and transfer kplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
8 Comply with the given contract information to lift, transfer and place loads using crawler cranes to the required specification.		<ul> <li>Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using crawler cranes:         <ul> <li>checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down.</li> </ul> </li> </ul>		
	8.2	2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.5	Prepare, set up and operate crawler cranes above 10 tonnes to lift, transfer and place a variety of loads to given working instructions.		
	8.4	Shut down and secure crawler cranes.		
	8.6	procedures, report problems and establish authority needed to rectify, to:  identify the characteristics of the crane for the lifting and transferring operation  identify valid certification for maintenance, inspection and thorough examination  lift and transfer people  carry out function checks for lifting and transferring loads  prepare, set up and reconfigure for various loads and locations  carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  identify characteristics, type, weight and position of loads for lifting and transferring  recognise and determine when specific skills and knowledge are required and report accordingly  secure and balance loads for lifting  lift, remove and transfer loads  position, place and set down loads  confirm load stability, security and release  attach and remove guide ropes and aids  be on the public highway  shut down and secure the crane  use hand tools and ancillary equipment  use, handle and store lifting accessories.		
	8.7	7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.		
	8.8	Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.		

Title:	Preparing and operating crawler cranes above 10 tonnes to lift and transfer loads in the workplace			
Additional inform	Additional information about this unit			
Assessment Guida	ance	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.		
Sector subject areas		5.2 Building and Construction		
Availability for use		Shared unit		
Unit credit value		80		
Unit guided learning hours		265		

Title: Preparing and operating		nd operating tower cranes to lift and transfer loads in the workplace		
Unit Number: K/508/6567				
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
Interpret the given     information relating to the     preparation and use of tower		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.		
cranes to lift, transplace loads.	ster and	1.2 Comply with information and/or instructions derived from risk assessments and method statements.		
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.		
		<ul> <li>Describe different types of information, their source and how they are interpreted in relation to:         <ul> <li>drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of tower cranes to lift and transfer loads.</li> </ul> </li> </ul>		
2 Organise with other	ration in	2.1 Organise the work according to given information or instructions.		
which lifting opera tower cranes are t out.	_	2.2 Describe how to communicate ideas between team members.		
		Organise and communicate with team members and other associated occupations.		
		2.4 Describe how to organise resources prior to and during lifting operations with tower cranes.		
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using tower cranes.		<ul> <li>Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:         <ul> <li>in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.</li> </ul> </li> </ul>		
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.		
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.		

Title: Preparing and o		nd operating tower cranes to lift and transfer loads in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out lifting operations using tower		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during lifting operations.		
cranes.	<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out lifting operations using tower cranes in relation to two or more of the following:         <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>safe use and storage of lifting accessories</li> <li>specific risks to health.</li> </ul> </li> </ul>			
		4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to tower crane use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures - personal protective equipment (PPE) - respiratory protective equipment (RPE) - local exhaust ventilation (LEV).		
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select required quantity of resources to pre	and quality epare for	5.1 Request and select resources associated with tower cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
and carry out lifting operations using tower cranes.		5.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and lifting accessories  - hand tools, ancillary equipment and accessories.		
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Tit	le:	Preparing ar	eparing and operating tower cranes to lift and transfer loads in the workplace		
	Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and method of work.	
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out lifting operations with tower cranes.	
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	lifting and transfer	ring loads.	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	7 Complete the work within the allocated time when preparing to and lifting and transferring loads.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:	Preparing and op	nd operating tower cranes to lift and transfer loads in the workplace		
Learning outcomes  The learner will be able to		essment criteria learner can:		
8 Comply with the given contract information to lift, transfer and place loads using tower cranes to the required specification.		Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using tower cranes:  - checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down.		
	8.2	Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.3	Prepare, set up and operate tower cranes to lift, transfer and place a variety of loads to given working instructions.		
	8.4	Shut down and secure tower cranes.		
	8.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify the characteristics of the crane for the lifting and transferring operation  - identify valid certification for maintenance, inspection and thorough examination  - lift and transfer people  - carry out function checks for lifting and transferring loads  - prepare, set up and reconfigure for various loads and locations  - carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  - identify characteristics, type, weight and position of loads for lifting and transferring		
	8.6	<ul> <li>recognise and determine when specific skills and knowledge are required and report accordingly</li> <li>secure and balance loads for lifting</li> <li>lift, remove and transfer loads</li> <li>position, place and set down loads</li> <li>confirm load stability, security and release</li> <li>attach and remove guide ropes and aids</li> <li>be on the public highway</li> <li>shut down and secure the crane</li> <li>use hand tools and ancillary equipment</li> <li>use, handle and store lifting accessories.</li> </ul>		
	8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.		
	8.8	Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.		

Title:	Preparing and operating tower cranes to lift and transfer loads in the workplace			
Additional inform	ation al	bout this unit		
Assessment Guida	ince	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.  This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.  ProQual Level 2 NVQ Diploma in Plant Operations (Construction):  One of the following endorsements required: Tower crane trolley jib		
		Tower crane luffing jib		
Sector subject are	as	5.2 Building and Construction		
Availability for use	è	Shared unit		
Unit credit value		80		
Unit guided learni hours	ng	267		

Title:	Preparing and operating mobile cranes to lift and transfer loads in the workplace			
<b>Unit Number:</b> M/508/6568		}		
Learning outcomes  The learner will be able t	o:	Assessment criteria The learner can:		
Interpret the given     information relating to the     preparation and use of mobile		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.		
cranes to lift, tran place loads.	ster and	1.2 Comply with information and/or instructions derived from risk assessments and method statements.		
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.		
		<ul> <li>Describe different types of information, their source and how they are interpreted in relation to:         <ul> <li>drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of mobile cranes to lift and transfer loads.</li> </ul> </li> </ul>		
2 Organise with oth sequence and ope	ration in	2.1 Organise the work according to given information or instructions.		
which lifting operations usin mobile cranes are to be carried out.		Describe how to communicate ideas between team members.		
		Organise and communicate with team members and other associated occupations.		
		2.4 Describe how to organise resources prior to and during lifting operations with mobile cranes.		
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using mobile cranes.		3.1 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.		
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.		
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.		

	Preparing and workplace	and operating mobile cranes to lift and transfer loads in the		
Learning outcomes  The learner will be able to:		Assessment criteria  The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out lifting operations using mobile		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during lifting operations.		
cranes.		<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out lifting operations using mobile cranes in relation to two or more of the following: <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>safe use and storage of lifting accessories</li> <li>specific risks to health.</li> </ul> </li> </ul>		
		<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to mobile crane use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>		
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select required quantity a of resources to pre	nd quality pare for	5.1 Request and select resources associated with mobile cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
and carry out lifting operations using mobile cranes.		<ul> <li>Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:         <ul> <li>consumables, lubricants and fuels</li> <li>attachments and lifting accessories</li> <li>hand tools, ancillary equipment and accessories.</li> </ul> </li> </ul>		
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Tit	le:	Preparing and operating mobile cranes to lift and transfer loads in the workplace			
	Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and method of work.	
			5.6	Describe how to identify weight, bearing, pressure, quantity, length and area associated with the method/procedures to carry out lifting operations with mobile cranes.	
6	to the work and surrounding area when preparing to and	6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.		
	iirting and	d transferring loads.	6.2	Prevent damage and maintain a clean work space.	
		6.3	Dispose of waste in accordance with current legislation.		
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	allocated time when prep	time when preparing	7.1	Demonstrate completion of the work within the allocated time.	
	to and lifting and transferring loads.		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:	Preparing and operating	ng mobile cranes to lift and transfer loads in the workplace			
Learning outcomes		Asses	Assessment criteria		
_	The learner will be able to:		arner can:		
8 Comply with the given contract information to lift, transfer and place loads using mobile cranes to the required specification.		8.1	Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using mobile cranes:  - checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down.		
		8.2	Use and maintain hand tools, ancillary equipment and/or accessories.		
		8.3	Prepare, set up and operate mobile cranes to lift, transfer and place a variety of loads to given working instructions.		
		8.4	Shut down and secure mobile cranes.		
		8.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify the characteristics of the crane for the lifting and transferring operation  - identify valid certification for maintenance, inspection and thorough examination  - lift and transfer people  - carry out function checks for lifting and transferring loads  - prepare, set up and reconfigure for various loads and locations  - carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  - identify characteristics, type, weight and position of loads for lifting and transferring  - recognise and determine when specific skills and knowledge are required and report accordingly  - secure and balance loads for lifting  - lift, remove and transfer loads  - position, place and set down loads  - confirm load stability, security and release  - attach and remove guide ropes and aids  - be on the public highway  - shut down and secure the crane  - use hand tools and ancillary equipment  - use, handle and store lifting accessories.		
		8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.		
		8.8	Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.		

Title: Pre	Preparing and operating mobile cranes to lift and transfer loads in the workplace				
Additional information about this unit					
Assessment Guidan	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.				
	Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.				
	Workplace evidence of skills cannot be simulated.				
	This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.				
	ProQual Level 2 NVQ Diploma in Plant Operations (Construction):				
	One of the following endorsements required:				
	Mobile crane blocked duties				
	Mobile crane pick and carry duties only				
	Mobile crane all duties				
Sector subject areas	5.2 Building and Construction				
Availability for use	Shared unit				
Unit credit value	95				
Unit guided learning hours	317				

Title:	Preparing and operating crawler-tractor side booms to lift and transfer loads in the workplace				
Unit Number: T/508/6569					
Learning outcomes  The learner will be able to:		Assessment criteria The learner can:			
Interpret the given     information relating to the     preparation and use of side     booms to lift, transfer and		s	nterpret and extract relevant information from drawings, pecifications, schedules, method statements, lift plans, risk ssessments and manufacturers' information.		
place loads.	sier and		omply with information and/or instructions derived from sk assessments and method statements.		
		aı	escribe the organisational procedures developed to report nd rectify inappropriate information and unsuitable esources and how they are implemented.		
			rescribe different types of information, their source and how ney are interpreted in relation to: drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of crawler-tractor side booms to lift and transfer loads.		
2 Organise with other sequence and ope	ration in		organise the work according to given information or astructions.		
which lifting operation side booms are to be cout.	•		escribe how to communicate ideas between team nembers.		
			organise and communicate with team members and other associated occupations.		
			escribe how to organise resources prior to and during lifting perations with side booms.		
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using side booms.			escribe their responsibilities regarding potential accidents, ealth hazards and the environment whilst working: in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.		
		e	escribe the organisational security procedures for tools, quipment and personal belongings in relation to site, orkplace, company and operative.		
			xplain what the accident reporting procedures are and who responsible for making reports.		

Title:	Preparing and operating co	rawler-tractor side booms to lift and transfer loads in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out lifting operations using side		4.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during lifting operations.	
boo	booms.	4.2	Demonstrate compliance with given information and relevant legislation when carrying out lifting operations using side booms in relation to two or more of the following:  - safe use and storage of plant or machinery  - safe use and storage of tools and equipment  - safe use and storage of lifting accessories  - specific risks to health.	
			Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to side boom use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).	
		4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	
		4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.	
requests of re	5 Request and select the required quantity and quality of resources to prepare for and carry out lifting operations using side booms.	5.1	Request and select resources associated with crawler-tractor side booms in relation to consumables, materials, tools, ancillary equipment and/or accessories.	
		5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and lifting accessories  - hand tools, ancillary equipment and accessories.	
		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.	

Tit	le:	Preparing and operating crawler-tractor side booms to lift and transfer loads in the workplace		
	Learning outcomes  The learner will be able to:			arner can:
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.
			5.5	Describe any potential hazards associated with the resources and method of work.
			5.6	Describe how to identify weight, bearing, pressure, quantity, length and area associated with the method/procedures to carry out lifting operations with side booms.
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	litting an	and transferring loads.	6.2	Prevent damage and maintain a clean work space.
			6.3	Dispose of waste in accordance with current legislation.
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	allocated	lete the work within the ted time when preparing	7.1	Demonstrate completion of the work within the allocated time.
	to and litting and loads.	ting and transferring	7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.

Title: Preparing an the workplace		operating crawler-tractor side booms to lift and transfer loads in
Learning outcomes The learner will be able to:		ssessment criteria he learner can:
8 Comply with the g contract informati transfer and place side booms to the specification.	on to lift, loads using	<ul> <li>Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using side booms:</li> <li>checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down.</li> </ul>
	8	.2 Use and maintain hand tools, ancillary equipment and/or accessories.
	8	.3 Prepare, set up and operate crawler-tractor side booms to lift, transfer and place a variety of loads and/or pipelines to given working instructions.
	8	.4 Shut down and secure side booms.
	8	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  identify the characteristics of the side boom for the lifting and transferring operation  identify valid certification for maintenance, inspection and thorough examination  lift and transfer people  carry out function checks for lifting and transferring loads  prepare, set up and reconfigure for various loads and locations  carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  identify characteristics, type, weight and position of loads for lifting and transferring  recognise and determine when specific skills and knowledge are required and report accordingly  secure and balance loads for lifting  lift, remove and transfer loads  position, place and set down loads  confirm load stability, security and release  attach and remove guide ropes and aids  be on the public highway  shut down and secure the side booms  use hand tools and ancillary equipment  use, handle and store lifting accessories.
	8	.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.
	8	.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.

Title:	Preparing and operating crawler-tractor side booms to lift and transfer loads in the workplace		
Additional inform	ation about this	unit	
Assessment Guida	ance	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.	
Sector subject areas Availability for use		5.2 Building and Construction	
		Shared unit	
Unit credit value		50	
Unit guided learning hours		160	

Title:		Preparing ar	-	rating draglines to extract ground and/or loose materials in
Unit Number: K/508/6570				
	Learning outcomes  The learner will be able to:			ssment criteria arner can:
1 Interpret the give information relation and		ng to the se of	1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
_	nes for extra itions.	cung	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
			1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
			1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of draglines for extraction work.
seque	nise with other	ration in	2.1	Organise the work according to given information or instructions.
using	which extracting operations using draglines are to be carried out.		2.2	Describe how to communicate ideas between team members.
			2.3	Organise and communicate with team members and other associated occupations.
			2.4	Describe how to organise resources prior to and during extracting operations using draglines.
releva guida extrac	3 Know how to comply with relevant legislation and off guidance when carrying ou extracting operations using draglines.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.	

	Preparing and the workplac	ng and operating draglines to extract ground and/or loose materials in rkplace		
Learning outcomes  The learner will be able to:	:	Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out extracting operations using draglines.		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during extracting operations.		
		<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out extracting operations using draglines in relation to two or more of the following: <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>		
		<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to dragline use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>		
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select t required quantity ar of resources to prep	nd quality pare for	5.1 Request and select resources associated with draglines in relation to consumables, materials, attachments, tools, ancillary equipment and/or accessories.		
and carry out extrac operations using dra	_	<ul> <li>Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:         <ul> <li>consumables, lubricants and fuels</li> <li>attachments and extraction aids</li> <li>hand tools, ancillary equipment and accessories.</li> </ul> </li> </ul>		
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Title: Preparing at the workpla		nd operating draglines to extract ground and/or loose materials in ce		
	Learning outcomes The learner will be able to:		7.000	ssment criteria varner can:
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.
			5.5	Describe any potential hazards associated with the resources and methods of work.
			5.6	Describe how to identify weight, pressure, quantity, length and area associated with the method/procedures to carry out extracting operations using draglines.
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and extracting materials.		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
			6.2	Prevent damage and maintain a clean work space.
			6.3	Dispose of waste in accordance with current legislation.
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	Complete the work w	en preparing	7.1	Demonstrate completion of the work within the allocated time.
	to and extracting materials.		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.

Title:	Preparing and ope	erating draglines to extract ground and/or loose materials in
Learning outcomes The learner will be able to:		essment criteria earner can:
8 Comply with the gi contract information extract materials under a draglines to the respecification.	on to Ising	Demonstrate the following work skills when preparing for and extracting loose materials, face, ground or commodities using draglines:  - checking, adjusting, communicating, manoeuvring, positioning, extracting, forming, removing and loading.
	8.2	Use and maintain hand tools, ancillary equipment and/or accessories.
	8.3	Prepare, position, set up and operate draglines to given working instructions  - extract ground, face, loose materials or commodities  - load and/or stockpile loose materials or commodities.
	8.4	Shut down and secure draglines.
	8.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify the characteristics of the dragline used for the extraction operation  - carry out function checks for the extraction operation  - prepare, set up and adjust for operational requirements  - identify the area to be extracted  - carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  - identify geological, environmental and material changes and report
	8.6	<ul> <li>check to avoid damage to structures and utilities service apparatus</li> <li>recognise and determine when specific skills and knowledge are required and report accordingly</li> <li>extract, remove and load materials and commodities safely and securely</li> <li>form and remove stockpiles</li> <li>be on the public highway</li> <li>shut down and secure dragline</li> <li>use hand tools, ancillary equipment and accessories.</li> </ul>
	8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out extracting operations.
	8.8	Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to extract materials.

Title:	Preparing and operating draglines to extract ground and/or loose materials in the workplace		
Additional inform	ation about this	unit	
Additional information about this  Assessment Guidance		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.	
Sector subject areas  Availability for use		5.2 Building and Construction	
		Shared unit	
Unit Credit value		60	
Unit guided learning hours		200	

Title:		_	rating 180 degree excavators to extract and excavate ground s in the workplace
Unit Number: M/508/6571		_	
Learning outcomes The learner will be able to	o:		ssment criteria Parner can:
1 Interpret the given information relating to the preparation and use of 180		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
degree excavators extracting and excoperations.		1.2	Comply with information and/or instructions derived from risk assessments and method statements.
			Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of 180 degree excavators for extraction and excavation work.
2 Organise with oth sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
which extracting a excavating operat 180 degree excava	ions using	2.2	Describe how to communicate ideas between team members.
be carried out.		2.3	Organise and communicate with team members and other associated occupations.
		2.4	Describe how to organise resources prior to and during extracting and excavating operations using 180 degree excavators.
3 Know how to comply with relevant legislation and official guidance when carrying out extracting and excavating operations using 180 degree excavators.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  – in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

•	ng and operating 180 degree excavators to extract and excavate ground se materials in the workplace
Learning outcomes  The learner will be able to:	Assessment criteria The learner can:
4 Maintain safe and healthy working practices when preparing for and carrying cextracting and excavating	during extracting and excavating operations.
operations using 180 degre excavators.	<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out extracting and excavating operations using 180 degree excavators in relation to two or more of the following: <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>
	<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to 180 degree excavator use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>
	4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
	4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
5 Request and select the required quantity and quali of resources to prepare for	attachments, tools, ancillary equipment and/or accessories.
and carry out extracting and excavating operations using 180 degree excavators.	
	5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.

Tit			nd operating 180 degree excavators to extract and excavate ground aterials in the workplace		
Learning outcomes			ssment criteria		
The	e learner will be able to	o:	The le	arner can:	
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.	
		5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out extracting and excavating operations using 180 degree excavators.		
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	extracting and excamaterials.	_	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	allocated time when prepari	en preparing	7.1	Demonstrate completion of the work within the allocated time.	
	to and extracting and excavating materials.		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

			nd operating 180 degree excavators to extract and excavate ground naterials in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:			
8 Comply with the given contract information to extract materials using 180 degree excavators to the required specification.		8.1	Demonstrate the following work skills when preparing for and extracting and excavating loose materials and ground using 180 degree excavators:  - checking, adjusting, communicating, manoeuvring, positioning, extracting, excavating, forming, removing and loading.		
			8.2	Use and maintain hand tools, ancillary equipment and/or accessories.	
			8.3	Prepare, position, set up and operate 180 degree excavators to given working instructions  - extract loose materials and/or different types of ground  - load and/or stockpile loose materials and ground  - excavate different types of ground.	
			8.4	Shut down and secure 180 degree excavators.	
			8.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify the characteristics of the 180 degree excavator used for the extraction and excavation operation  - carry out function checks for the extraction and excavation operation  - prepare, set up and adjust for operational requirements  - identify the area to be extracted/excavated  - carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  - identify geological, environmental and material changes and report  - check to avoid damage to structures and utilities service apparatus	
			8.6	<ul> <li>recognise and determine when specific skills and knowledge are required and report accordingly</li> <li>extract, excavate, remove and load materials safely and securely</li> <li>form stockpiles</li> <li>be on the public highway</li> <li>shut down and secure 180 degree excavator</li> <li>use hand tools, ancillary equipment and accessories.</li> </ul>	

Title:	Preparing and operating 180 degree excavators to extract and excavate ground and loose materials in the workplace		
Learning outcomes		Asse	ssment criteria
The learner will be able to:		The le	parner can:
8 Continued		8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out extracting and excavating operations.
		8.8	Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to extract and excavate materials.

Title:	Preparing and operating 180 degree excavators to extract and excavate ground and loose materials in the workplace				
Additional inform	nation al	oout this unit			
Assessment Guidance		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant assurational expertise and knowledge, and must			
		sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.			
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.			
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction:			
		One of the following endorsements is required:			
		Excavator 180 degree wheeled below 5 tonne			
		Excavator 180 degree wheeled above 5 tonne			
Sector subject are	eas	5.2 Building and Construction			
Availability for use		Shared unit			
Unit Credit value		80			
Unit guided learning hours		266			

•		nd operating tracked loading shovels to extract ground and loose the workplace		
Interpret the given     information relating to the     preparation and use of tracked		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.	
loading shovels fo operations.	r extracting	1.2	Comply with information and/or instructions derived from risk assessments and method statements.	
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of tracked loading shovels for extraction work.	
sequence and ope	2 Organise with others the sequence and operation in		Organise the work according to given information or instructions.	
which extracting operations using tracked loading shovels are to be carried out.		2.2	Describe how to communicate ideas between team members.	
			Organise and communicate with team members and other associated occupations.	
		2.4	Describe how to organise resources prior to and during extracting operations using tracked loading shovels.	
3 Know how to comply with relevant legislation and official guidance when carrying out extracting operations using tracked loading shovels.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  — in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.	

	ing and operating tracked loading shovels to extract ground and loose als in the workplace
Learning outcomes The learner will be able to:	Assessment criteria The learner can:
4 Maintain safe and healthy working practices when preparing for and carrying extracting operations usin	
tracked loading shovels.	<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out extracting operations using tracked loading shovels in relation to two or more of the following: <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>
	<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to tracked loading shovel use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>
	4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
	4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
5 Request and select the required quantity and qua of resources to prepare for	
and carry out extracting operations using tracked loading shovels.	<ul> <li>5.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to: <ul> <li>consumables, lubricants and fuels</li> <li>attachments and extraction aids</li> <li>hand tools, ancillary equipment and accessories.</li> </ul> </li> </ul>
	5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.

Tit	le:	Preparing and operating tracked loading shovels to extract ground and loose materials in the workplace			
	Learning outcomes		Assessment criteria		
The	e learner will be able to	o:	The le	arner can:	
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, pressure, quantity, length and area associated with the method/procedures to carry out extracting operations using tracked loading shovels.	
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and extracting materials.		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
			6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	7 Complete the work within the allocated time when preparing to and extracting materials.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:	Preparing and materials in th	operating tracked loading shovels to extract ground and loose be workplace	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
8 Comply with the given contract information to extract materials using tracked loading shovels to the required specification.		<ul> <li>Demonstrate the following work skills when preparing for and extracting loose materials and ground using tracked loading shovels:         <ul> <li>checking, adjusting, communicating, manoeuvring, positioning, extracting, forming, removing and loading.</li> </ul> </li> </ul>	
	8	Use and maintain hand tools, ancillary equipment and/or accessories.	
	8	<ul> <li>Prepare, position, set up and operate tracked loading shovels to given working instructions</li> <li>extract ground, face and/or loose materials</li> <li>load and/or stockpile loose materials.</li> </ul>	
	8	3.4 Shut down and secure tracked loading shovels.	
		Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify the characteristics of the tracked loading shovel used for the extraction operation  - carry out function checks for the extraction operation  - prepare, set up and adjust for operational requirements  - identify the area to be extracted  - carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  - identify geological, environmental and material changes and report  - check to avoid damage to structures and utilities service apparatus  - recognise and determine when specific skills and knowledge are required and report accordingly  - extract, remove and load materials safely and securely  - form stockpiles  - be on the public highway  - shut down and secure the tracked loading shovel  - use hand tools, ancillary equipment and accessories.	
	8	3.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out extracting operations.	
		3.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to extract materials.	

Title:	Preparing and operating tracked loading shovels to extract ground and loose materials in the workplace			
Additional inform	Additional information about this unit			
Assessment Guida	ance	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.		
Sector subject are	eas	5.2 Building and Construction		
Availability for use		Shared unit		
Unit Credit value		80		
Unit guided learning hours		266		

Title:	Preparing and operating motorised scrapers to extract, transport and distribute materials in the workplace		
<b>Unit Number:</b> A/508/6573			
Learning outcomes The learner will be able t	o:		sment criteria arner can:
Interpret the given     information relating to the     preparation and use of     motorised scrapers for		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
extraction and dist		1.2	Comply with information and/or instructions derived from risk assessments and method statements.
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of motorised scrapers for extraction and distribution work.
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
which extraction a distribution opera motorised scraper	tions using	2.2	Describe how to communicate ideas between team members.
carried out.		2.3	Organise and communicate with team members and other associated occupations.
			Describe how to organise resources prior to and during extraction and distribution operations using motorised scrapers.
3 Know how to comply with relevant legislation and official guidance when carrying out extraction and distribution operations using motorised scrapers.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  — in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

-	ing and operating motorised scrapers to extract, transport and distribute als in the workplace
Learning outcomes The learner will be able to:	Assessment criteria The learner can:
4 Maintain safe and healthy working practices when preparing for and carrying extraction and distribution	4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during extraction and distribution operations.
operations using motorised scrapers.	4.2 Demonstrate compliance with given information and relevant legislation when carrying out extraction and distribution operations using motorised scrapers in relation to two or more of the following:  - safe use and storage of plant or machinery  - safe use and storage of tools and equipment  - specific risks to health.
	<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to motorised scraper use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>
	4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
	4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
5 Request and select the required quantity and qua of resources to prepare fo	tools, ancillary equipment and/or accessories.
and carry out extraction and distribution operations using motorised scrapers.	
	5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.

Tit	le:	Preparing and operating motorised scrapers to extract, transport and distri materials in the workplace			
	Learning outcomes		Assessment criteria		
The	e learner will be able to	o:	The le	arner can:	
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out extraction and distribution operations using motorised scrapers.	
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	extracting and dist materials.	ributing	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	7 Complete the work within the allocated time when preparing to and extracting and distributing materials.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:	Preparing and operating motorised scrapers to extract, transport and distribute materials in the workplace			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
8 Comply with the given contract information to extract and distribute materials using motorised scrapers to the required specification.		<ul> <li>Demonstrate the following work skills when preparing for and extracting and distributing loose materials using motorised scrapers:         <ul> <li>checking, adjusting, communicating, manoeuvring, positioning, extracting, distributing, forming, removing and loading.</li> </ul> </li> </ul>		
	8.2	2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.5	Prepare, position, set up and operate motorised scrapers to given working instructions  – extract, load and transport different types of ground  – lay, distribute and/or stockpile extracted materials.		
	8.4	4 Shut down and secure motorised scrapers.		
	8.5	<ul> <li>procedures, report problems and establish authority needed to rectify, to:         <ul> <li>identify the characteristics of the motorised scraper used for the extraction and distribution operation</li> <li>carry out function checks for the extraction and distribution operation</li> <li>prepare, set up and adjust for operational requirements</li> <li>identify the area to be extracted</li> <li>carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area</li> <li>identify geological, environmental and material changes and report</li> </ul> </li> </ul>		
		<ul> <li>check to avoid damage to structures and utilities service apparatus</li> <li>recognise and determine when specific skills and knowledge are required and report accordingly</li> <li>extract, load, transport and lay materials safely and securely</li> <li>form stockpiles</li> <li>be on the public highway</li> <li>shut down and secure the motorised scraper</li> <li>use hand tools, ancillary equipment and accessories.</li> </ul>		
	8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out extraction and distribution operations.		
		Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to extract and distribute materials.		

Title:	Preparing and operating motorised scrapers to extract, transport and distribute materials in the workplace		
Additional inform	ation about this	unit	
Assessment Guida	nnce	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.	
Sector subject are	as	5.2 Building and Construction	
Availability for use Unit Credit value Unit guided learning hours		Shared unit	
		80	
		267	

Title:		Preparing an	nd operating trenchers to extract ground and/or loose materials in ce
<b>Unit Number:</b> F/508/6574		F/508/6574	
Learning outcomes  The learner will be able to:		o:	Assessment criteria The learner can:
1 Interpret the given information relating to the preparation and use of		ig to the se of	1.1 Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
	renchers for extra operations.	cting	1.2 Comply with information and/or instructions derived from risk assessments and method statements.
			1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
			<ul> <li>Describe different types of information, their source and how they are interpreted in relation to:         <ul> <li>drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of trenchers for extraction work.</li> </ul> </li> </ul>
S	Organise with other	ration in	2.1 Organise the work according to given information or instructions.
u	which extracting operations using trenchers are to be carried out.		Describe how to communicate ideas between team members.
			Organise and communicate with team members and other associated occupations.
			2.4 Describe how to organise resources prior to and during extracting operations using trenchers.
re g e	3 Know how to comply with relevant legislation and official guidance when carrying out extracting operations using trenchers.		<ul> <li>Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:         <ul> <li>in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.</li> </ul> </li> </ul>
			3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
			3.3 Explain what the accident reporting procedures are and who is responsible for making reports.

Title:	Preparing ar	oring and operating trenchers to extract ground and/or loose materials in orkplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out extracting operations using		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during extracting operations.		
trenchers.		<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out extracting operations using trenchers in relation to two or more of the following: <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>		
		<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to trencher use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>		
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select required quantity a of resources to pre	and quality epare for	5.1 Request and select resources associated with trenchers in relation to consumables, materials, attachments, tools, ancillary equipment and/or accessories.		
and carry out extracting operations using trenchers.	5.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and extraction aids  - hand tools, ancillary equipment and accessories.			
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Title: Preparing ar the workpla		nd operating trenchers to extract ground and/or loose materials in ce			
	Learning outcomes		Assessment criteria		
The	e learner will be able to	0:	The le	arner can:	
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out extracting operations using trenchers.	
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	extracting materia	15.	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	7 Complete the work within the allocated time when preparing to and extracting materials.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:		Preparing and operating trenchers to extract ground and/or loose materials in he workplace			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:			
8 Comply with the given contract information to extract materials using trenchers to the required		<ul> <li>8.1 Demonstrate the following work skills when preparing for and extracting loose materials, face or ground using trenchers:</li> <li>checking, adjusting, communicating, manoeuvring, positioning, extracting, forming, removing and loading.</li> </ul>			
specification.		8.2 Use and maintain hand tools, ancillary equipment and/or accessories.			
		<ul> <li>8.3 Prepare, position, set up and operate trenchers to given working instructions</li> <li>– extract ground, face or loose materials</li> <li>– stockpile loose materials.</li> </ul>			
		8.4 Shut down and secure trenchers.			
		<ul> <li>8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: <ul> <li>identify the characteristics of the trenchers used for the extraction operation</li> <li>carry out function checks for the extraction operation</li> <li>prepare, set up and adjust for operational requirements</li> <li>identify the area to be extracted</li> <li>carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area</li> </ul> </li> </ul>			
		- identify geological, environmental and material changes and report  - check to avoid damage to structures and utilities service apparatus  - recognise and determine when specific skills and knowledge are required and report accordingly  - extract, remove and load materials safely and securely  - form stockpiles  - be on the public highway  - shut down and secure trenchers  - use hand tools, ancillary equipment and accessories.			
	8.7	8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out extracting operations.			
		8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to extract materials.			

Title:	Preparing and operating trenchers to extract ground and/or loose materials in the workplace		
Additional inform	nation about this	unit	
Assessment Guidance		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.	
		Workplace evidence of skills cannot be simulated.	
Sector subject areas		5.2 Building and Construction	
Availability for use		Shared unit	
Unit Credit value		50	
Unit guided learning hours		160	

Title:	-	_	rating 360 degree excavators to extract ground, face and/or the workplace
<b>Unit Number:</b> J/508/6575			
Learning outcomes  The learner will be able to:			sment criteria arner can:
1 Interpret the given information relating to the preparation and use of 360		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
degree excavators extracting operation		1.2	Comply with information and/or instructions derived from risk assessments and method statements.
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of 360 degree excavators for extraction work.
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
which extracting of using 360 degree of are to be carried of	excavators 2	2.2	Describe how to communicate ideas between team members.
		2.3	Organise and communicate with team members and other associated occupations.
		2.4	Describe how to organise resources prior to and during extracting operations using 360 degree excavators.
3 Know how to comply with relevant legislation and official guidance when carrying out extracting operations using 360 degree excavators.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  – in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

		nd operating 360 degree excavators to extract ground, face and/or ials in the workplace		
Learning outcomes  The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out extracting operations using 360 degree excavators.		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during extracting operations.		
		<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out extracting operations using 360 degree excavators in relation to two or more of the following:         <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>		
		4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to 360 degree excavators use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures - personal protective equipment (PPE) - respiratory protective equipment (RPE) - local exhaust ventilation (LEV).		
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select required quantity of resources to pre-	and quality epare for	5.1 Request and select resources associated with 360 degree excavators in relation to consumables, materials, attachments, tools, ancillary equipment and/or accessories.		
and carry out extracting operations using 360 degre excavators.	-	5.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and extraction aids  - hand tools, ancillary equipment and accessories.		
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

		nd operating 360 degree excavators to extract ground, face and/or ials in the workplace			
	Learning outcomes		Assessment criteria		
The	e learner will be able to	0:	The le	arner can:	
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out extracting operations using 360 degree excavators.	
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	extracting materia	15.	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	7 Complete the work within the allocated time when preparing to and extracting materials.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

-		nd operating 360 degree excavators to extract ground, face and/or ials in the workplace		
Learning outcomes		Assessment criteria		
The learner will be able to:		he learner can:		
8 Comply with the given contract information to extract materials using 360 degree excavators to the required specification.		<ul> <li>.1 Demonstrate the following work skills when preparing for and extracting ground and/or loose materials using 360 degree excavators:         <ul> <li>checking, adjusting, communicating, manoeuvring, positioning, extracting, forming, removing and loading.</li> </ul> </li> </ul>		
	8.	.2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.	.3 Prepare, position, set up and operate 360 degree excavators to given working instructions		
		<ul> <li>extract from a face, loose materials and/or ground</li> </ul>		
		<ul> <li>load and/or stockpile extracted loose materials.</li> </ul>		
	8.	.4 Shut down and secure 360 degree excavators.		
		<ul> <li>Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:         <ul> <li>identify the characteristics of the 360 degree excavator used for the extraction operation</li> <li>carry out function checks for the extraction operation</li> <li>prepare, set up and adjust for operational requirements</li> <li>identify the area to be extracted</li> <li>carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area</li> <li>identify geological, environmental and material changes and report</li> <li>check to avoid damage to structures and utilities service apparatus</li> </ul> </li> <li>recognise and determine when specific skills and knowledge are required and report accordingly</li> <li>extract, remove and load materials and commodities safely and securely</li> <li>form stockpiles</li> <li>be on the public highway</li> <li>shut down and secure the 360 degree excavator</li> <li>use hand tools, ancillary equipment and accessories.</li> </ul>		
	8.	.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out extracting operations.		
		.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to extract materials.		

Title:	Preparing and operating 360 degree excavators to extract ground, face and/or loose materials in the workplace				
Additional inform	ation about this unit				
Assessment Guida	nce This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.				
	Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.				
	Workplace evidence of skills cannot be simulated.				
	This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.				
	ProQual Level 2 NVQ Diploma in Plant Operations (Construction):				
	One of the following endorsements required:				
	Excavator 360 degree below 10 tonne tracked Excavator 360 degree below 10 tonne wheeled Excavator 360 degree above 10 tonne tracked Excavator 360 degree above 10 tonne wheeled				
Sector subject are	as 5.2 Building and Construction				
Availability for use	Shared unit				
Unit Credit value	80				
Unit guided learni hours	ng 266				

Title:	Preparing ar	_	rating crawler tractor dozers to carry out dozer operations in
<b>Unit Number:</b> L/508/6576			
Learning outcomes  The learner will be able to:			ssment criteria Parner can:
Interpret the given     information relating to the     preparation and use of crawler		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
tractor dozers for operations.	aozer	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
			Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of crawler tractor dozers for dozer operations.
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
which dozer opera crawler tractor do be carried out.	lozers are to	2.2	Describe how to communicate ideas between team members.
		2.3	Organise and communicate with team members and other associated occupations.
		2.4	Describe how to organise resources prior to and during dozer operations using crawler tractor dozers.
3 Know how to comply with relevant legislation and official guidance when carrying out dozer operations using crawler tractor dozers.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

	Preparing and he workplac	g and operating crawler tractor dozers to carry out dozer operations in place		
Learning outcomes  The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out dozer operations using crawler		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during dozer operations.		
tractor dozers.		<ul> <li>Demonstrate compliance with given information and relevant legislation when carrying out dozer operations using crawler tractor dozers in relation to two or more of the following:         <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>		
		<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to crawler tractor dozer use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>		
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select the required quantity and of resources to prepare	d quality are for	5.1 Request and select resources associated with crawler tractor dozers in relation to consumables, materials, attachments, tools, ancillary equipment and/or accessories.		
and carry out dozer operations using crawler tractor dozers.	-	<ul> <li>Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:         <ul> <li>consumables, lubricants and fuels</li> <li>attachments and plant or machinery aids</li> <li>hand tools, ancillary equipment and accessories.</li> </ul> </li> </ul>		
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

		Preparing ar	eparing and operating crawler tractor dozers to carry out dozer operations in e workplace		
Learning outcomes		Assessment criteria			
The learner will be able to:		The le	arner can:		
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
		5.5	Describe any potential hazards associated with the resources and methods of work.		
		5.6	Describe how to identify weight, bearing pressure, quantity, length and area associated with the method/procedures to carry out dozer operations using crawler tractor dozers.		
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and carrying out dozer operations.		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
			6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
		6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.		
7	Complete the work within the allocated time when preparing to and carrying out dozer operations		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

	eparing and operating crawler tractor dozers to carry out dozer operations in eworkplace
Learning outcomes The learner will be able to:	Assessment criteria The learner can:
8 Comply with the give contract information out dozer operations crawler tractor dozer required specification	extracting, excavating, laying and distributing materials using crawler tractor dozers:  - checking, adjusting, communicating, manoeuvring,
	8.2 Use and maintain hand tools, ancillary equipment and/or accessories.
	<ul> <li>8.3 Prepare, set up, position and operate crawler tractor dozers to given working instructions</li> <li>extract, excavate and move different types of materials</li> <li>lay or distribute materials</li> <li>form and/or stockpile materials.</li> </ul>
	8.4 Shut down and secure crawler tractor dozers.
	<ul> <li>8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: <ul> <li>identify the characteristics of the crawler tractor dozer used for the dozer operation</li> <li>carry out function checks for the dozer operation</li> <li>prepare, set up and adjust for operational requirements</li> <li>identify the area of work</li> <li>carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area</li> <li>identify geological, environmental and material changes and report</li> <li>check to avoid damage to structures and utilities service apparatus</li> </ul> </li> </ul>
	8.6  - recognise and determine when specific skills and knowledge are required and report accordingly  - extract, excavate and move materials safely and securely  - form and remove stockpiles  - form embankments, bunds and cuttings  - conduct ripper operations  - be on the public highway  - shut down and secure crawler tractor dozer  - use hand tools, ancillary equipment and accessories.
	8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out dozer operations.
	8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to carry out dozer operations.

Title:	Preparing and operating crawler tractor dozers to carry out dozer operations in the workplace			
Additional informa	ion about this unit			
Assessment Guida		nce edge, ie		
	ProQual Level 2 NVQ Diploma in Plant Operations (Construction):  One of the following endorsements required:  Extract Excavate Construct/form Lay/distribute			
Sector subject area	5.2 Building and Construction			
Availability for use	Shared unit			
Unit Credit value	80			
Unit guided learnin	266			

Title: Preparing and ope		rating	draglines to excavate ground materials in the workplace
<b>Unit Number:</b> R/508/6577			
Learning outcomes The learner will be able to:			ssment criteria arner can:
Interpret the given     information relating to the     preparation and use of		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
draglines to excavating of	•	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of draglines for excavation work.
sequence a	th others the nd operation in	2.1	Organise the work according to given information or instructions.
using dragli	which excavating operations using draglines are to be carried out.	2.2	Describe how to communicate ideas between team members.
		2.3	Organise and communicate with team members and other associated occupations.
		2.4	Describe how to organise resources prior to and during excavating operations using draglines.
relevant leg guidance w	co comply with islation and official hen carrying out operations using	3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  – in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

Title: Preparing and operating draglines to excavate ground ma		draglines to excavate ground materials in the workplace	
	Learning outcomes The learner will be able to:		sment criteria arner can:
working practices when preparing for and carrying out excavating operations using		4.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during excavating operations.
draglines.		4.2	Demonstrate compliance with given information and relevant legislation when carrying out excavating operations using draglines in relation to two or more of the following:  - safe use and storage of plant or machinery  - safe use and storage of tools and equipment  - specific risks to health.
		4.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to dragline use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).
			Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
		4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
required qua of resources	5 Request and select the required quantity and quality of resources to prepare for	5.1	Request and select resources associated with draglines in relation to consumables, materials, attachments, tools and ancillary equipment.
and carry ou operations u	t excavating sing draglines.	5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and excavation aids  - hand tools, ancillary equipment and accessories
		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.

Tit	Title: Preparing and operating draglines to excavate ground materials in the workplace		raglines to excavate ground materials in the workplace		
	arning outco		Assessment criteria		
The	e learner will l	be able to:	The le	arner can:	
5	Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify quantity, weight, length and area associated with the method/procedures to carry out excavating operations using draglines.	
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	excavating	materiais.	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	allocated t	the work within the ime when preparing	7.1	Demonstrate completion of the work within the allocated time.	
	to and exc	avating materials.	7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:	Preparing and operating draglines to excavate ground materials in the workplace	
Learning outcome	s	Assessment criteria
The learner will be al	ble to:	The learner can:
8 Comply with the given contract information to excavate materials using draglines to the required specification.	<ul> <li>Demonstrate the following work skills when preparing for_and excavating ground using draglines:         <ul> <li>checking, adjusting, communicating, operating, manoeuvring, positioning, excavating, measuring and removing.</li> </ul> </li> </ul>	
		8.2 Use and maintain hand tools, ancillary equipment and/or accessories.
		<ul> <li>8.3 Prepare, position, set up and operate draglines to given working instructions to:</li> <li>– excavate ground</li> <li>– load or stockpile excavated ground and/or loose materials.</li> </ul>
		8.4 Shut down and secure draglines.
		<ul> <li>Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: <ul> <li>identify the characteristics of the dragline used for excavating operations</li> <li>carry out function checks for excavation work</li> <li>identify the area to be excavated</li> <li>prepare, set up and adjust for operational requirements</li> <li>carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area</li> <li>identify geological, environmental and material changes and report</li> <li>check to avoid damage to structures and utilities service apparatus</li> </ul> </li> <li>8.6</li> </ul>
		knowledge are required and report accordingly  excavate accurately to line and level  form stockpiles  use equipment to gauge and measure  be on the public highway  excavate, remove and load materials safely and securely  shut down and secure the dragline  use hand tools, ancillary equipment and accessories.
		8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and carrying out excavating operations.
		8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to excavate materials.

Title:	Preparing and operating draglines to excavate ground materials in the workplace		
Additional	information about th	nis unit	
Assessmen	t Guidelines	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.	
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.	
		Workplace evidence of skills cannot be simulated.	
Sector subj	ect areas	5.2 Building and Construction	
Availability	for use	Shared unit	
Unit Credit	value	60	
Unit guided	l learning hours	200	

Title: Preparing and ope		rating	360 degree excavators to excavate ground in the workplace
<b>Unit Number:</b> Y/508/6578			
Learning outcomes The learner will be able to:			ssment criteria arner can:
1 Interpret the given information relating to the preparation and use of 360		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
excavating of	evators to carry out operations.	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
			Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of 360 degree excavators for excavation work.
sequence a	th others the	2.1	Organise the work according to given information or instructions.
using 360 d	which excavating operations using 360 degree excavators are to be carried out.	2.2	Describe how to communicate ideas between team members.
		2.3	Organise and communicate with team members and other associated occupations.
		2.4	Describe how to organise resources prior to and during excavating operations using 360 degree excavators.
relevant leg guidance w	to comply with cislation and official hen carrying out operations using excavators.	3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

Title:	Preparing and operating 360 degree excavators to excavate ground in the workplace	
Learning out		Assessment criteria The learner can:
4 Maintain safe and healthy working practices when preparing for and carrying out excavating operations using		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during excavating operations.
360 degr	ee excavators.	<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out excavating operations using 360 degree excavators in relation to two or more of the following:         <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>
		<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to 360 degree excavator use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
required of resour	and select the quantity and quality ces to prepare for	5.1 Request and select resources associated with 360 degree excavators in relation to consumables, materials, attachments, tools and ancillary equipment.
operatio	and carry out excavating operations using 360 degree excavators.	<ul> <li>5.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:         <ul> <li>consumables, lubricants and fuels</li> <li>attachments and excavation aids</li> <li>hand tools, ancillary equipment and accessories</li> </ul> </li> </ul>
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.

Tit	le:	Preparing and operating 360 degree excavators to excavate ground in the workplace			
	arning outo	comes Il be able to:	Assessment criteria The learner can:		
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify quantity, weight, length and area associated with the method/procedures to carry out excavating operations using 360 degree excavators.	
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	excavatii	ng materials.	6.2	Prevent damage and maintain a clean work space.	
		6.3	Dispose of waste in accordance with current legislation.		
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	allocated time when preparing		7.1	Demonstrate completion of the work within the allocated time.	
	to and ex	cavating materials.	7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title: Preparing and ope	erating 360 degree excavators to excavate ground in the workplace
Learning outcomes	Assessment criteria
The learner will be able to:	The learner can:
8 Comply with the given contract information to excavate materials using 360 degree excavators to the required specification.	<ul> <li>Demonstrate the following work skills when preparing for_and excavating ground using 360 degree excavators:         <ul> <li>checking, adjusting, communicating, operating, manoeuvring, positioning, excavating, measuring and removing.</li> </ul> </li> </ul>
	8.2 Use and maintain hand tools, ancillary equipment and/or accessories.
	<ul> <li>8.3 Prepare, position, set up and operate 360 degree excavators to given working instructions to:</li> <li>– excavate a variety of ground</li> <li>– load or stockpile excavated loose materials.</li> </ul>
	8.4 Shut down and secure 360 degree excavators.
	<ul> <li>8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: <ul> <li>identify the characteristics of the 360 degree excavator used for excavating operations</li> <li>carry out function checks for excavation work</li> <li>identify the area to be excavated</li> <li>prepare, set up and adjust for operational requirements</li> <li>carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area</li> <li>identify geological, environmental and material changes and report</li> <li>check to avoid damage to structures and utilities service apparatus</li> </ul> </li> </ul>
	- recognise and determine when specific skills and knowledge are required and report accordingly - excavate accurately to line and level - form stockpiles - use equipment to gauge and measure - be on the public highway - excavate, remove and load materials safely and securely - shut down and secure the 360 degree excavator - use hand tools, ancillary equipment and accessories.
	8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and carrying out excavating operations.
	8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to excavate materials.

Title:	Preparing and operating 360 degree excavators to excavate ground in the workplace			
Additional inform	ation about this unit			
Assessment Guide	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.			
	Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.			
	Workplace evidence of skills cannot be simulated.			
	This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.			
	ProQual Level 2 NVQ Diploma in Plant Operations (Construction):			
	One of the following endorsements required:			
	Excavator 360 degree below 10 tonne tracked Excavator 360 degree below 10 tonne wheeled Excavator 360 degree above 10 tonne tracked Excavator 360 degree above 10 tonne wheeled			
Sector subject are	as 5.2 Building and Construction			
Availability for use	e Shared unit			
Unit Credit value	80			
Unit guided learni hours	ng 266			

Title:	Preparing and operating trenchers to excavate ground in the workplace		
<b>Unit Number:</b> D/508/6579			
Learning outcomes  The learner will be able to:			ment criteria ner can:
Interpret the given     information relating to the     preparation and use of		9	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
trenchers to carry of excavating operation			Comply with information and/or instructions derived from risk assessments and method statements.
		á	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
			Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of trenchers for excavation work.
2 Organise with other sequence and open	ration in		Organise the work according to given information or instructions.
which excavating of using trenchers are carried out.	-		Describe how to communicate ideas between team members.
			Organise and communicate with team members and other associated occupations.
			Describe how to organise resources prior to and during excavating operations using trenchers.
3 Know how to comply with relevant legislation and official guidance when carrying out excavating operations using trenchers.			Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		(	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
			Explain what the accident reporting procedures are and who is responsible for making reports.

Title:	Preparing and operating trenchers to excavate ground in the workplace			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out excavating operations using		Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during excavating operations.		
trenchers.	4	Demonstrate compliance with given information and relevant legislation when carrying out excavating operations using trenchers in relation to two or more of the following:  - safe use and storage of plant or machinery  - safe use and storage of tools and equipment  - specific risks to health.		
	4	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to trencher use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).		
	4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
	4	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select required quantity of resources to pre	and quality epare for	Request and select resources associated with trenchers in relation to consumables, materials, attachments, tools and ancillary equipment.		
and carry out excavating operations using trenchers.	_	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and excavation aids  - hand tools, ancillary equipment and accessories		
	5	Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Tit	le:	Preparing and operating trenchers to excavate ground in the workplace		
	Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.
			5.6	Describe how to identify quantity, weight, length and area associated with the method/procedures to carry out excavating operations using trenchers.
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	excavating materia	IIS.	6.2	Prevent damage and maintain a clean work space.
			6.3	Dispose of waste in accordance with current legislation.
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	7 Complete the work within the allocated time when preparing	en preparing	7.1	Demonstrate completion of the work within the allocated time.
	to and excavating I	materials.	7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.

Title:	Preparing an	d operating trenchers to excavate ground in the workplace
Learning outcomes		Assessment criteria
The learner will be able to	o:	The learner can:
8 Comply with the given contract information to excavate materials using trenchers to the required specification.		<ul> <li>8.1 Demonstrate the following work skills when preparing for_and excavating ground using trenchers:         <ul> <li>checking, adjusting, communicating, operating, manoeuvring, positioning, excavating, measuring and removing.</li> </ul> </li> </ul>
		8.2 Use and maintain hand tools, ancillary equipment and/or accessories.
		8.3 Prepare, position, set up and operate trenchers to excavate a variety of ground and form trenches to given working instructions.
		8.4 Shut down and secure trenchers.
		<ul> <li>8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: <ul> <li>identify the characteristics of the trenchers used for excavating operations</li> <li>carry out function checks for excavation work</li> <li>identify the area to be excavated</li> <li>prepare, set up and adjust for operational requirements</li> <li>carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area</li> <li>identify geological, environmental and material changes and report</li> </ul> </li> </ul>
		- check to avoid damage to structures and utilities service apparatus  - recognise and determine when specific skills and knowledge are required and report accordingly  - excavate accurately to line and level  - use equipment to gauge and measure  - be on the public highway  - excavate materials safely and securely  - shut down and secure trenchers  - use hand tools, ancillary equipment and accessories.
		8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and carrying out excavating operations.
		8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to excavate materials.

Title:	Preparing and operating trenchers to excavate ground in the workplace		
Additional inform	ation about this	unit	
Assessment Guidelines		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.	
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.	
		Workplace evidence of skills cannot be simulated.	
Sector subject are	eas	5.2 Building and Construction	
Availability for use	9	Shared unit	
Unit Credit value		50	
Unit guided learning hours		215	

Title:	Preparing an materials in t		rating tracked loading shovels to excavate ground and loose orkplace
Unit Number: R/508/6580			
Learning outcomes  The learner will be able to:			earner can:
1 Interpret the given information relating to the preparation and use of tracked		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
loading shovels to excavating operat	-	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of tracked loading shovels for excavation work.
2 Organise with oth sequence and ope	eration in	2.1	Organise the work according to given information or instructions.
which excavating operations using tracked loading shovels are to be carried out.	ling shovels	2.2	Describe how to communicate ideas between team members.
			Organise and communicate with team members and other associated occupations.
		2.4	Describe how to organise resources prior to and during excavating operations using tracked loading shovels.
3 Know how to comply with relevant legislation and official guidance when carrying out excavating operations using tracked loading shovels.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  – in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

	Preparing and operating tracked loading shovels to excavate ground and loose materials in the workplace	
Learning outcomes The learner will be able to:	Assessment criteria The learner can:	
4 Maintain safe and healthy working practices when preparing for and carrying excavating operations using	4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements	
tracked loading shovels.	<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out excavating operations using tracked loading shovels in relation to two or more of the following: <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>	
	<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to tracked loading shovel use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>	
	4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	
	4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.	
5 Request and select the required quantity and qua of resources to prepare fo		
and carry out excavating operations using tracked loading shovels.	<ul> <li>Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:         <ul> <li>consumables, lubricants and fuels</li> <li>attachments and excavation aids</li> <li>hand tools, ancillary equipment and accessories</li> </ul> </li> </ul>	
	5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.	

Tit	le:	Preparing and operating tracked loading shovels to excavate ground and loose materials in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.
			5.6	Describe how to identify quantity, weight, length and area associated with the method/procedures to carry out excavating operations using tracked loading shovels.
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	excavating materia	iis.	6.2	Prevent damage and maintain a clean work space.
			6.3	Dispose of waste in accordance with current legislation.
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	7 Complete the work within the allocated time when preparing to and excavating materials.		7.1	Demonstrate completion of the work within the allocated time.
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.

Title:	Preparing and operating tracked loading shovels to excavate ground and loose materials in the workplace			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
8 Comply with the given contract information to excavate materials using tracked loading shovels to the required specification.		<ul> <li>Demonstrate the following work skills when preparing for and excavating ground using tracked loading shovels:         <ul> <li>checking, adjusting, communicating, operating, manoeuvring, positioning, excavating, measuring and removing.</li> </ul> </li> </ul>		
	8	3.2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8	<ul> <li>Prepare, position, set up and operate tracked loading shovels to given working instructions to:</li> <li>excavate ground and/or loose materials</li> <li>load or stockpile excavated ground and/or loose materials.</li> </ul>		
	8	3.4 Shut down and secure tracked loading shovels.		
		Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify the characteristics of the tracked loading shovel used for excavating operations  - carry out function checks for excavation work  - identify the area to be excavated  - prepare, set up and adjust for operational requirements  - carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  - identify geological, environmental and material changes and report  - check to avoid damage to structures and utilities service apparatus		
	8	- recognise and determine when specific skills and knowledge are required and report accordingly - excavate accurately to line and level - form stockpiles - use equipment to gauge and measure - be on the public highway - excavate, remove and load materials safely and securely - shut down and secure tracked loading shovels - use hand tools, ancillary equipment and accessories.		
	{	3.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and carrying out excavating operations.		
	8	Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to excavate materials.		

Title:	Preparing and operating tracked loading shovels to excavate ground and loose materials in the workplace		
Additional inform	Additional information about this unit		
Assessment Guide	elines	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.	
Sector subject are	eas	5.2 Building and Construction	
Availability for use		Shared unit	
Unit Credit value		80	
Unit guided learning hours		267	

Title:	Preparing and operating graders to form and shape ground and/or loose materials in the workplace		
<b>Unit Number:</b> Y/508/6581			
Learning outcomes The learner will be able t	o:		sment criteria arner can:
Interpret the given     information relating to the     preparation and use of graders		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
to carry out formi	uR	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of graders for formation work.
2 Organise with oth sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
which forming operation using graders are to be out.		2.2	Describe how to communicate ideas between team members.
		2.3	Organise and communicate with team members and other associated occupations.
		2.4	Describe how to organise resources prior to and during forming operations using graders.
3 Know how to comply with relevant legislation and official guidance when carrying out forming operations using graders.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  — in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

	Preparing and operating graders to form and shape ground and/or loose materials in the workplace			
Learning outcomes  The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out forming operations using		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during forming operations.		
graders.		<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out forming operations using graders in relation to two or more of the following:         <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>		
		<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to grader use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>		
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select required quantity at of resources to prepare	nd quality pare for	5.1 Request and select resources associated with graders in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
and carry out forming operations using graders.	5.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and forming aids  - hand tools, ancillary equipment and/or accessories.			
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Tit	le:	Preparing and operating graders to form and shape ground and/or loose materials in the workplace				
	Learning outcomes			Assessment criteria		
The	e learner will be able to	0:	The le	arner can:		
5 c	5 continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and methods of work.		
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out forming operations using graders.		
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.		
	forming ground us	ing graders.	6.2	Prevent damage and maintain a clean work space.		
			6.3	Dispose of waste in accordance with current legislation.		
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.		
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.		
7	7 Complete the work within the allocated time when preparing to and forming ground using graders.		7.1	Demonstrate completion of the work within the allocated time.		
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.		

		d operating graders to form and shape ground and/or loose the workplace		
Learning outcomes The learner will be able to:		sessment criteria e learner can:		
8 Comply with the given contract information to form ground and materials using graders to the required specification.		Demonstrate the following work skills when preparing for and forming loose materials and/or ground using graders:  - checking, adjusting, communicating, manoeuvring, positioning, constructing and forming.  Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.3	Prepare, set-up, position and operate graders to form and shape loose materials and/or ground to given working instructions.		
	8.4	Shut down and secure graders.		
	8.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify the characteristics of the grader used for formation operations  - carry out function checks for the formation operation  - identify the area of the formation work  - identify geological, environmental and material changes and report  - prepare, set up and adjust for operational requirements  - carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area		
	8.6	<ul> <li>check to avoid damage to structures and utilities service apparatus</li> <li>form and shape materials safely and securely</li> <li>recognise and determine when specific skills and knowledge are required and report accordingly</li> <li>complete construction and formation work</li> <li>be on the public highway</li> <li>shut down and secure the graders</li> <li>use hand tools, ancillary equipment and accessories.</li> </ul>		
	8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing for and carrying out forming operations.		
	8.8	Describe how to maintain the plant and machinery, hand tools, ancillary equipment and/or accessories used to form materials.		

Title:	Preparing and operating graders to form and shape ground and/or loose materials in the workplace		
Additional inform	nation about this	unit	
Additional information about this casessment Guidance  Sector subject areas		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.	
		5.2 Building and Construction	
Availability for use	e	Shared unit	
Unit Credit value		70	
Unit guided learning hours		233	

Title: Preparing an		nd oper	ating formwork rigs to construct and form in the workplace	
<b>Unit Number:</b> D/508/6582				
Learning outcomes The learner will be able to	o:		sment criteria arner can:	
Interpret the given     information relating to the     preparation and use of	1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.		
formwork rigs to c constructing and for operations.		1.2	Comply with information and/or instructions derived from risk assessments and method statements.	
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the preparation and operation of formwork rigs for construction and formation work.	
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.	
which constructing forming operation formwork rigs are	erations using igs are to be	ns using	2.2	Describe how to communicate ideas between team members.
carried out.		2.3	Organise and communicate with team members and other associated occupations.	
		2.4	Describe how to organise resources prior to and during formwork rig operations.	
relevant legislation guidance when pro operating formwo carry out construc	3 Know how to comply with relevant legislation and official guidance when preparing and operating formwork rigs to carry out constructing and forming operations.	3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  — in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
			Describe the organisational security procedures for plant, tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.	

Title:	Preparing an	nd operating formwork-rigs to construct and form in the workplace
Learning outcomes  The learner will be able to:		Assessment criteria The learner can:
4 Maintain safe and healthy working practices when preparing and operating formwork rigs to construct and	4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during formwork rig operations.	
form.	form.	<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when preparing and operating formwork rigs to carry out constructing and forming operations in relation to two or more of the following:         <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>
		4.3 Explain why and when health and safety control equipment, identified by the principles of prevention, should be used, relating to preparing and operating formwork rigs, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures - local exhaust ventilation (LEV) - personal protective equipment (PPE) - respiratory protective equipment (RPE).
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and emergencies relating to occupational activities.
required quantity ar of resources to prep	5 Request and select the required quantity and quality of resources to prepare and operate formwork rigs to carry out constructing and forming operations	5.1 Request and select resources associated with formwork rigs in relation to consumables, materials, tools, ancillary equipment and accessories.
out constructing and		5.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and aids for construction or formation work  - hand tools, ancillary equipment and accessories.
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.

Title: Preparing and operating formwork rigs to construct and form in the workpla		rating formwork rigs to construct and form in the workplace				
	Learning outcomes The learner will be able to:			Assessment criteria The learner can:		
5 0	5 continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and methods of work.		
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to prepare and operate the formwork rig to construct and form.		
6	6 Minimise the risk of damage to the work and surrounding area when preparing and operating formwork rigs to construct and form	6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.			
		_	6.2	Prevent damage and maintain a clean work space.		
			6.3	Dispose of waste in accordance with current legislation.		
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.		
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.		
7	Complete the work within the allocated time when preparing and operating formwork rigs to carry out constructing and forming operations.		7.1	Demonstrate completion of the work within the allocated time.		
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.		

Title:	Preparing and	d operating formwork rigs to construct and form in the workplace
Learning outcomes The learner will be able to		Assessment criteria The learner can:
8 Comply with the given contract information to prepare and operate formwork rigs to construct	ven on to te onstruct and	8.1 Demonstrate the following work skills when preparing and operating formwork rigs to construct and form:  - checking, adjusting, communicating, manoeuvring, positioning, constructing and forming.
form to the require specification.		8.2 Use and maintain hand tools, ancillary equipment and/or accessories.
		8.3 Prepare, set-up, position and operate formwork rigs (slipform, climbing, jumping) to construct and form to given working instructions.
		8.4 Shut down and secure formwork rigs.
		8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify the characteristics of the formwork rigs used for construction and formation operations  - carry out function checks for the construction and formation operation  - identify the area of the construction and formation work  - identify geological, environmental and material changes and report  - prepare, set-up and adjust for operational requirements  - carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  8.6 - check to avoid damage to structures and utilities service apparatus  - construct and form using formwork rigs safely and securely  - recognise and determine when specific skills and knowledge are required and report accordingly  - complete construction and formation work  - travel on the public highway  - shut down and secure the formwork rig  - use hand tools, ancillary equipment and accessories.
		8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing and operating formwork rigs to carry out constructing and forming operations.
		8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and/or accessories used to carry out formwork rig operations.

Title:	Preparing and operating formwork rigs to construct and form in the workplace						
Additional information about this unit							
Assessme	nt Guidance	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.					
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.					
		Workplace evidence of skills cannot be simulated.					
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.					
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction):					
		One of the following endorsements required:					
		Formwork rig slipform vertical Formwork rig slipform horizontal Formwork rig climbing/jumping					
Sector subject areas		5.2 Building and Construction					
Availability for use		Shared unit					
Unit credi	t value	52					
Unit guided learning hours		173					

Title:	Preparing and operating truck-mounted boom concre and discharge materials in the workplace		ating truck-mounted boom concrete pumps to receive, pumperials in the workplace
Unit Number:	H/508/6583		
Learning outcomes The learner will be able t	o:		sment criteria arner can:
Interpret the given     information relating to the     preparation and use of		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
concrete pumps to pumping and discloperations.		1.2	Comply with information and/or instructions derived from risk assessments and method statements.
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of truckmounted boom concrete pumps.
2 Organise with other	eration in nd ations using 2. are to be	2.1	Organise the work according to given information or instructions.
which pumping an discharging opera- concrete pumps a		2.2	Describe how to communicate ideas between team members.
carried out.		2.3	Organise and communicate with team members and other associated occupations.
		2.4	Describe how to organise resources prior to and during concrete pumping operations.
3 Know how to comply with relevant legislation and official guidance when carrying out pumping and discharging operations using concrete pumps.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  – in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
	3.2	3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

		nd operating truck-mounted boom concrete pumps to receive, pump ge materials in the workplace		
	Learning outcomes  The learner will be able to:			sment criteria
4 Maintain safe and healthy working practices when preparing for and carrying out pumping operations using		4.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during concrete pumping operations.	
	concrete pumps.		4.2	Demonstrate compliance with given information and relevant legislation when carrying out pumping operations using truck-mounted boom concrete pumps in relation to two or more of the following:  - safe use and storage of plant or machinery  - safe use and storage of tools and equipment  - specific risks to health.
			4.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to concrete pump use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).
			4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
			4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
5	Request and select required quantity a of resources to pre	y and quality prepare for	5.1	Request and select resources associated with concrete pumps in relation to consumables, materials, tools, ancillary equipment and/or accessories.
	and carry out pumping operations using concrete pumps.		5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments and load coverings  - hand tools, ancillary equipment and accessories.

Tit	le:		and operating truck-mounted boom concrete pumps to receive, pump rge materials in the workplace		
Learning outcomes The learner will be able to:			arner can:		
5	5 Continued		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.	
			5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, quantity, pressure, length and area associated with the method/procedures to carry out concrete pumping operations.	
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	pumping materials concrete pumps.	using	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	allocated time when p	en preparing	7.1	Demonstrate completion of the work within the allocated time.	
	to and pumping and discharging materials using concrete pumps.		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:		and operating truck-mounted boom concrete pumps to receive, pump		
Learning outcomes The learner will be able t		Assessment criteria The learner can:		
8 Comply with the given contract information to receive, pump and discharge materials using concrete pumps to the required		Demonstrate the following work skills when preparing for and pumping and discharging materials using concrete pumps:  - checking, adjusting, communicating, manoeuvring, positioning, receiving, depositing, pumping, discharging and cleaning.		
specification.	8.2	Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.3	Prepare to, position, set up and operate truck-mounted boom concrete pumps to receive, pump and discharge materials, at various locations, to given working instructions.		
	8.4	Shut down and secure concrete pumps.		
	8.5	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify the characteristics of the concrete pump used for pumping and discharging work  - carry out function checks to receive, pump and discharge materials  - identify characteristics, type and volume of loads to receive, pump and discharge  - prepare, set up and adjust for operational requirements  - carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area		
	8.6	<ul> <li>recognise and determine when specific skills and knowledge are required and report accordingly</li> <li>identify the area for pumping</li> <li>check to avoid damage to structures and utilities service apparatus</li> <li>receive, and pump and discharge materials safely and securely</li> <li>be on the public highway</li> <li>shut down and secure the concrete pump</li> <li>use hand tools, ancillary equipment and accessories.</li> </ul>		
	8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out pumping and discharging operations.		
	8.8	Describe how to maintain the plant and machinery, hand tools and ancillary equipment used pumping and discharging operations.		

Title:	Preparing and operating truck-mounted boom concrete pumps to receive, pump and discharge materials in the workplace				
Additional inform	ation about this	unit			
Assessment Guida	ince	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.  Workplace evidence of skills cannot be simulated.			
Sector subject are	as	5.2 Building and Construction			
Availability for use Unit Credit value		Shared units			
		70			
Unit guided learni	ng hours	233			

Title:	Title: Preparing as workplace		rating soil stabilisers to lay and distribute materials in the		
Unit Number: K/508/6584					
Learning outcomes  The learner will be able to	to:	Assessment criteria The learner can:			
Interpret the given     information relating to the     preparation and use of soil		1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information.		
stabilisers to carry and distribution_o		1.2	Comply with information and/or instructions derived from risk assessments and method statements.		
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.		
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of soil stabilisers for laying and distribution work.		
sequence and ope	sequence and operation in		Organise the work according to given information or instructions.		
which laying and onerations using stabilisers are to be	soil	2.2	Describe how to communicate ideas between team members.		
out.		2.3	Organise and communicate with team members and other associated occupations.		
		2.4	Describe how to organise resources prior to and during laying and distribution operations using soil stabilisers.		
3 Know how to comply with relevant legislation and official guidance when carrying out laying and distribution operations using soil stabilisers.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  — in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.		
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.		
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.		

Title:	Preparing and o	operating soil stabilisers to lay and distribute materials in the		
Learning outcomes The learner will be able to		Assessment criteria The learner can:		
4 Maintain safe and h working practices w preparing for and c laying and distribut	vhen arrying out ion	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during laying and distribution operations.		
operations using so stabilisers.		<ul> <li>Demonstrate compliance with given information and relevant legislation when carrying out laying and distribution operations using soil stabilisers in relation to two or more of the following:         <ul> <li>safe use and storage of plant or machinery</li> <li>safe use and storage of tools and equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>		
	4	<ul> <li>Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to soil stabiliser use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:         <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>		
	4	.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
	4	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select required quantity a of resources to pre	nd quality pare for	7.1 Request and select resources associated with soil stabilisers in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
and carry out laying distribution operation soil stabilisers.	ution operations using 5.	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - consumables, lubricants and fuels  - attachments, laying and distribution aids  - hand tools, ancillary equipment and accessories.		
		Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Tit	le:	Preparing ar workplace	and operating soil stabilisers to lay and distribute materials in the			
	Learning outcomes		Assessment criteria			
5	The learner will be able to:  5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and methods of work.		
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out laying and distribution operations using soil stabilisers.		
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.		
	laying and distribu materials.	ting	6.2	Prevent damage and maintain a clean work space.		
			6.3	Dispose of waste in accordance with current legislation.		
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.		
		(	6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.		
7	Complete the work	en preparing	7.1	Demonstrate completion of the work within the allocated time.		
	to and laying and distributing materials.		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.		

Title:	Preparing and workplace	nd operating soil stabilisers to lay and distribute materials in the			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:			
8 Comply with the given contract information to lay and distribute materials using soil stabilisers to the required		<ul> <li>Demonstrate the following work skills when preparing for and laying and distributing materials using soil stabilisers:         <ul> <li>checking, adjusting, communicating, manoeuvring, positioning, mixing, laying, distributing and compacting.</li> </ul> </li> </ul>			
specification.	8	Use and maintain hand tools, ancillary equipment and/or accessories.			
	8	Prepare to, position, set up and operate soil stabilisers to mix, lay and distribute a variety of materials, in a variety of locations, to given working instructions.			
	8	3.4 Shut down and secure soil stabilisers.			
		Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - identify the characteristics of the soil stabiliser used for laying and distribution operations  - carry out function checks for the laying and distribution work  - identify the area for the laying and distribution work  - prepare, set up and adjust for operational requirements  - carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area  - confirm material characteristics  - mix, lay and distribute materials in laying patterns  - identify geological, environmental and material changes and report  - check to avoid damage to structures and utilities service apparatus  - recognise and determine when specific skills and knowledge are required and report accordingly  - complete laying and distribution work  - be on the public highway  - shut down and secure soil stabiliser  - use hand tools, ancillary equipment and accessories.			
	8	3.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out laying and distribution operations.			
		Describe how to maintain the plant and machinery, hand tools and ancillary equipment used to lay and distribute materials.			

Title:	-	Preparing and operating soil stabilisers to lay and distribute materials in the workplace					
Additional inform	ation a	bout this unit					
Assessment Guida	ince	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.					
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.					
		Workplace evidence of skills cannot be simulated.					
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.					
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction):					
		One of the following endorsements required:					
		Soil stabiliser self-propelled Soil stabiliser towed					
Sector subject are	as	5.2 Building and Construction					
Availability for use	9	Shared unit					
Unit credit value		40					
Unit guided learni hours	ng	133					

Title:	Preparing and operating plant or machinery from a floating vessel in the workplace		
Unit Number: M/508/6585		5	
Learning outcomes  The learner will be able to	to:	Assessment criteria The learner can:	
Interpret the give information relati preparing and open	ng to erating plant	1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.	
or machinery fron vessel.	n a floating	1.2 Comply with information and/or instructions derived from risk assessments and method statements.	
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		<ul> <li>Describe different types of information, their source and how they are interpreted in relation to:         <ul> <li>drawings, specifications, schedules, method statements, lift plans, risk assessments, manufacturers' information and current regulations governing operations from, and with, a floating vessel.</li> </ul> </li> </ul>	
2 Organise with oth sequence and ope	eration in	2.1 Organise the work according to given information or instructions.	
which plant or ma operations from a vessel are to be ca	floating 2	2.2 Describe how to communicate ideas between team members.	
		2.3 Organise and communicate with team members and other associated occupations.	
		2.4 Describe how to organise resources prior to and during floating vessel operations.	
3 Know how to comply with relevant legislation and official guidance when carrying out plant or machinery operations from a floating vessel.		<ul> <li>Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:         <ul> <li>in the workplace, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.</li> </ul> </li> </ul>	
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.	
		3.4 Describe the types of fire extinguishers available when carrying out plant or machinery operations from a floating vessel, and explain how and when they are used.	

Tit	le:	Preparing an workplace	d oper	ating plant or machinery from a floating vessel in the	
	arning outcomes e learner will be able to	o:	Assessment criteria The learner can:		
4	4 Maintain safe and healthy working practices when preparing for and carrying out plant or machinery operations	when carrying out operations	4.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during floating vessel operations.	
	from a floating ves		4.2	Demonstrate compliance with given information and relevant legislation when carrying out plant or machinery operations from a floating vessel in relation to the following:  - safe use and storage of plant or machinery on floating vessels  - safe use and storage of tools and equipment  - specific risks to health.	
			4.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to floating vessel operations, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).	
			4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	
			4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.	
			4.6	Demonstrate the safe use of a fire extinguisher relevant to a typical fire associated with carrying out plant or machinery operations from a floating vessel as relevant to the operation.	
5	Request and select the required quantity and of resources to prepar	and quality epare for	5.1	Request and select resources associated with the work in relation to consumables, materials, plant, machinery, attachments, tools and ancillary equipment.	
	and carry out plant or machinery operations from a floating vessel.		5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - floating vessels - consumables, lubricants and fuels - attachments - hand tools, accessories and ancillary equipment.	

Tit	le:	Preparing ar workplace	nd ope	rating plant or machinery from a floating vessel in the			
Learning outcomes		Assessment criteria					
The learner will be able to:			The le	The learner can:			
5	Continued		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.			
			5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.			
			5.5	Describe any potential hazards associated with the resources and methods of work.			
			5.6	Describe how to identify weight, ballast, quantity, length and area associated with the method/procedure to carry out work from a floating vessel.			
6	to the work and surrounding area when carrying out plant		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.			
	or machinery oper a floating vessel.	ations from	6.2	Prevent damage and maintain a clean work space.			
			6.3	Dispose of waste in accordance with current legislation.			
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.			
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.			
7	allocated time when preparing		7.1	Demonstrate completion of the work within the allocated time.			
	to and carrying out a floating vessel.	L WORK TROM	7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.			

Title: Preparing and operating plant or machinery from a floating vessel in the workplace				
Learning outcon The learner will be		Assessment criteria The learner can:		
8 Comply with the given contract information to carry out plant or machinery operations from a floating		8.1 Demonstrate the following work skills when preparing for and operating plant or machinery from a floating vessel:  - checking, setting up, adjusting, communicating, operating, manoeuvring, controlling, positioning and sea fastening.		
vessel to the specification	•	8.2 Use and maintain hand tools, ancillary equipment, accessories and lifting accessories.		
		8.3 Prepare to and carry out plant or machinery operations from a floating vessel to given working instructions, protocols and Codes of Practice, relating to the movement and operation for six or more of the following activities:  - lift - transfer - extract - excavate - construct - form - receive - access - distribute - demolish - process.		
		8.4 Shut down and secure the plant or machinery attached to the floating vessel.		
		<ul> <li>8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: <ul> <li>mobilise and demobilise plant for floating vessel operations</li> <li>identify the restrictions on plant and machinery when operating on a floating vessel</li> <li>counter the effects of floating vessel movement during plant and machinery operations</li> <li>carry out function checks for the control of plant and machinery on the floating vessel</li> <li>confirm the area of work for the operation</li> <li>recognise operational limitations and de-ratings</li> <li>confirm safety and security requirements</li> <li>recognise and determine when specific skills and knowledge are required and report accordingly</li> <li>synchronise movements with other plant and machinery on a floating vessel</li> </ul> </li> </ul>		
		Prepare, manoeuvre, position, sea fasten and set up plant and machinery for operations     carry out plant or machinery operations safely and securely stop, shut down operations and secure plant and machinery use hand tools and equipment.		

Title:	Preparing and operating plant or machinery from a floating vessel in the workplace			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
8 Continued		8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out plant or machinery operations from a floating vessel	
		8.8	Describe how to maintain the hand tools plant, machinery and ancillary equipment used to carry out operations from a floating vessel.	

_		_	i		
Г	п	۰	ı	0	ľ

Preparing and operating plant or machinery from a floating vessel in the workplace

#### Additional information about this unit

#### Assessment Guidance

This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated except for assessment criteria 4.6.

This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.

ProQual Level 2 NVQ Diploma in Plant Operations (Construction):

**Six** of the following endorsements required:

Lift

Transfer

Extract

Excavate

Construct

Form

Receive

Access

Distribute

Demolish

**Process** 

Sector subject areas	5.2 Building and Construction		
Availability for use	Shared unit		
Unit credit value	36		
Unit guided learning hours	125		

Title:	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace		
Unit Number:	A/508/6587		
Learning outcomes The learner will be able to	·o:	ssessment crite	eria
Interpret the given     information relating to the     preparation and use of		specificat	and extract relevant information from drawings, ons, schedules, risk assessments, operating ns and manufacturers' information.
powered units, to pedestrian plant, i equipment.			ith information and/or instructions derived from sments and method statements.
		and rectif	the organisational procedures developed to report y inappropriate information and unsuitable and how they are implemented.
		they are i – drawi risk a	different types of information, their source and how interpreted in relation to: ings, specifications, schedules, method statements, issessments, legislation, Codes of Practice, facturers' information and operating instructions.
2 Know how to com relevant legislatio guidance to prepa powered units, to pedestrian plant, equipment.	n and official re and use ols or	health ha – in the at hei subst	heir responsibilities regarding potential accidents, zards and the environment whilst working: workplace, below ground level, in confined spaces, ght, with tools and equipment, with materials and ances, with movement/storage of materials and by all handling and mechanical lifting.
		equipmer	the organisational security procedures for tools, and personal belongings in relation to site, e, company and operative.
		•	hat the accident reporting procedures are and who ible for making reports.

Titl	le:	-	g and operating powered units, tools or pedestrian plant, machinery or nt in the workplace	
Learning outcomes			sment criteria arner can:	
The learner will be able to:  3 Maintain safe and healthy working practices when preparing for and using powered units, tools or pedestrian plant, machinery or		3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements when using powered units, tools or pedestrian plant, machinery or equipment	
	equipment.	3.2	Demonstrate compliance with given information and relevant legislation when using powered units, tools or pedestrian plant, machinery or equipment in relation to two or more of the following:  - safe use of access equipment  - safe handling of materials  - safe use and storage of materials, tools and equipment  - specific risks to health.	
		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to powered units, tools or pedestrian plant, machinery or equipment use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:  - collective protective measures  - personal protective equipment (PPE)  - respiratory protective equipment (RPE)  - local exhaust ventilation (LEV).	
			3.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
			3.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
4	4 Select the required quantity and quality of resources to prepare for and sustain powered units, tools or pedestrian plant, machinery or equipment.	urces to	4.1	Select resources associated with the type of work in relation to fuel/power source, lubricants and consumables.
		4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  - power source/fuels - consumables, lubricants.	

Tit	le:	-	ring and operating powered units, tools or pedestrian plant, machinery or ment in the workplace		
Learning outcomes The learner will be able to:			Assessment criteria The learner can:		
4 Continued		4.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.		
			4.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			4.5	Describe any potential hazards associated with the resources and methods of work.	
			4.6	Describe how to identify quantity, length, area and wastage associated with the method/procedures to operate powered units, tools or pedestrian plant, machinery or equipment.	
5	to the work and surrounding area when preparing to and		5.1	Protect the work and its surrounding area from damage. in accordance with safe working practices and organisational procedures	
	using powered uni pedestrian plant, r		5.2	Prevent damage and maintain a clean work space.	
	equipment.		5.3	Dispose of waste in accordance with current legislation.	
			5.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			5.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
6	6 Complete the work within the allocated time when preparing to and using powered units, tools or pedestrian plant, machinery or equipment.		6.1	Demonstrate completion of the work within the allocated time.	
			6.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.	

Title:		d operating powered units, tools or pedestrian plant, machinery or a the workplace
Learning outcomes The learner will be able to		Assessment criteria The learner can:
7 Comply with the given contract information to operate powered units, tools	on to units, tools	<ul> <li>7.1 Demonstrate the following work skills when using powered units, tools or pedestrian plant, machinery or equipment:         <ul> <li>starting, stopping, replenishing, controlling and cleaning.</li> </ul> </li> </ul>
or pedestrian plan or equipment to the specification.		7.2 Use and maintain powered units, tools and ancillary equipment.
		<ul> <li>7.3 Operate and monitor powered units and tools or pedestrian plant, machinery or associated equipment to given working instructions relating to: <ul> <li>continual running</li> <li>closing down</li> <li>cleaning.</li> </ul> </li> </ul>
	;	7.4 Return powered unit, tools or pedestrian plant, machinery or equipment to a safe operational condition on completion of work.
	7	7.5 Disassemble and/or clean powered unit, tools or pedestrian plant, machinery or equipment.
		7.6 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:  - prepare, position and set up for work - secure accessories and tool attachments - carry out pre-use and function checks to manufacturers' and suppliers' information/ and procedures - complete pre-start and post stop checks - recognise the characteristics of the plant, machinery and equipment - identify specific operating and safety requirements for the task and work - recognise and determine when specific skills and knowledge are required and report accordingly  7.7 — monitor and maintain - replenish consumables - close down and secure - disassemble and clean - use access equipment - transport and store.
		7.8 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and using powered units, tools or pedestrian plant, machinery or equipment.
	:	7.9 Describe how to maintain the hand tools, portable power tools, powered units, pedestrian plant, machinery and ancillary equipment used for the work.

Title:	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace					
Additional inform	Additional information about this unit					
Assessment Guida	ance	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.				
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.				
		Workplace evidence of skills cannot be simulated.				
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.				
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction):				
		One of the following endorsements required:				
		Generators Pumps Pedestrian operated plant or machines Mixers Compressors Self powered tools				
Sector subject area		5.2 Building and Construction				
Availability for use		Shared unit				
Unit credit value		7				
Unit guided learni hours	ng	23				

Title:	Erecting and dismantling plant (cranes and rigs) in the workplace			
Unit Number:	F/508/6588	38		
Learning outcomes The learner will be able t	o:		sment criteria arner can:	
Interpret the given     information relating to     erecting and dismantling		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.	
plant.		1.2	Comply with information and/or instructions derived from risk assessments and method statements.	
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.	
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  — drawings, specifications, schedules, method statements, risk assessments and manufacturers' information.	
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.	
	which erecting and dismantling operations are to be carried out.		Describe how to communicate ideas between team members.	
		2.3	Organise and communicate with team members and other associated occupations.	
		2.4	Describe how to organise resources prior to and during erecting and dismantling operations.	
3 Know how to com relevant legislation guidance when end dismantling plant.	n and official ecting and	3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:  — in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.	

Title:	Erecting and	cting and dismantling plant (cranes and rigs) in the workplace		
Learning outcomes The learner will be all				
4 Maintain safe and healthy working practices when carrying out erecting and dismantling of plant.		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during erecting and dismantling operations.		
	<ul> <li>4.2 Demonstrate compliance with given information and relevant legislation when carrying out erecting and dismantling of plant in relation to two or more of the following: <ul> <li>safe use and storage of plant</li> <li>safe use and storage of tools and equipment</li> <li>safe use of access equipment</li> <li>specific risks to health.</li> </ul> </li> </ul>			
		<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to erecting and dismantling plant, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>		
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
of resources to	tity and quality carry out	5.1 Request and select resources associated with the work in relation to consumables, materials, attachments, tools, and ancillary equipment.		
erecting and dismantling of plant.	5.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:  – plant – hand and/or powered tools and equipment.			
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Tit	le:	Erecting and dismantling plant (cranes and rigs) in the workplace		
	Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.
			5.5	Describe any potential hazards associated with the resources and methods of work.
			5.6	Describe how to identify weight, pressure, quantity, length and area associated with the method/procedures to carry out the work.
6	to the work and surrounding area when erecting and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	dismantling plant.		6.2	Prevent damage and maintain a clean work space.
			6.3	Dispose of waste in accordance with current legislation.
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	7 Complete the work within the allocated time when erecting and dismantling plant.		7.1	Demonstrate completion of the work within the allocated time.
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.

Title:	Erecting and disi	mantling plant (cranes and rigs) in the workplace
Learning outcomes The learner will be able to:		sessment criteria
8 Comply with the given contract information to erect and dismantle plant to the required specification.	iven 8.1 on to erect nt to the	
	8.2	Use and maintain hand tools, portable power tools, ancillary equipment and machinery.
	8.3	Prepare, erect and dismantle plant to given working instructions of one or more of the following:  - mobile crane  - mobile tower crane  - crawler crane  - self-erect equipment  - drilling rig  - piling rig  - demolition rig.
	8.4	procedures, report problems and establish authority needed to rectify, to:  - erect and dismantle one or more of the following: mobile crane, mobile tower crane, crawler crane, self-erect equipment, drilling rig, piling rig and demolition rig  - consider ground conditions and work area  - fit, fasten and secure equipment  - dismantle and remove equipment  - recognise the requirements for controlling, directing and guiding the movement and operations of plant and machinery  - identify valid certification for maintenance, inspection and thorough examination  - recognise and determine when specific skills and knowledge are required and report accordingly
		<ul> <li>complete function checks</li> <li>use access equipment</li> <li>use hand tools, power tools, plant and equipment</li> <li>record and report.</li> </ul>
	8.6	Describe the needs of other occupations and how to effectively communicate within a team when preparing for and erecting and dismantling plant.
		Describe how to maintain the hand tools, portable power tools, plant and ancillary equipment used to erect and dismantle plant.

Title:	Erecting and dismantling plant (cranes and rigs) in the workplace				
Additional information about this unit					
Assessment Guidance		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.			
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.			
		Workplace evidence of skills cannot be simulated.			
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.			
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction):			
		One of the following endorsements required:			
		Mobile crane Crawler crane Mobile tower crane Self-erect equipment Piling rig Demolition rig Drilling rig			
Sector subject are	ea	5.2 Building and Construction			
Availability for use	e	Shared unit			
Unit credit value		36			
Unit guided learning hours		130			

Title:	Preparing, operating and controlling operations of road plant or machinery in the workplace		
Unit Number:	J/508/6589	08/6589	
Learning outcome			ssment criteria Parner can:
Interpret the given     information relating to the     work and resources when		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments, method statements and manufacturers' information.
preparing, op controlling ro machinery.	_	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4	Describe different types of information, their source and how they are interpreted in relation to:  - drawings, specifications, schedules, method statements, risk assessments, organisational and manufacturers' information and current regulations and official guidance governing operations of plant or machinery.
2 Organise with sequence in w	which the	2.1	Organise the work according to given information or instructions.
preparing, operating and controlling road plant or machinery are to be carried out.		2.2	Communicate with team members and other associated occupations about the plant or machinery operations and the work to be carried out.
		2.3	Describe how to communicate ideas between team members.
3 Know how to relevant legisl official guidar preparing, op controlling ro machinery.	lation and nce when erating and	3.1	Describe their responsibilities regarding potential accidents health hazards and the environment, whilst working:  - in the workplace, below ground level, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2	Describe the organisational security procedures for plant and/or machinery, tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

	Preparing, operating and controlling operations of road plant or machinery in the workplace		
Learning outcomes The learner will be able to:	Assessment criteria The learner can:		
4 Maintain safe and health working practices where preparing, operating are controlling road plant of the same street are street.	out the activity in accordance with current legislation and organisational requirements when preparing,		
machinery.	4.2 Comply with information relating to specific risks to health when preparing, operating and controlling road plant or machinery.		
	<ul> <li>4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to preparing, operating and controlling road plant or machinery, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul> <li>collective protective measures</li> <li>personal protective equipment (PPE)</li> <li>respiratory protective equipment (RPE)</li> <li>local exhaust ventilation (LEV).</li> </ul> </li> </ul>		
	4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
	4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select the required quantity and quality of resources wh			
preparing, operating ar controlling road plant o machinery.			
	5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Tit	le:	Preparing, operating and controlling operations of road plant or machinery in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.
			5.5	Describe any potential hazards associated with the resources and methods of work.
			5.6	Describe how to calculate weight, quantity, length and area associated with the method/procedure to prepare, operate and control road plant or machinery.
6	6 Minimise the risk of to the work and surrounding area wl preparing, operating controlling road plan machinery.	nd rea when erating and	6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
			6.2	Minimise damage and maintain a clean work space.
			6.3	Dispose of waste in accordance with current legislation.
		6.4	6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	Complete the the allocated t	time when perating and plant or	7.1	Demonstrate completion of the work within the allocated time.
	preparing, op- controlling ro		7.2	Shut down and secure the plant.
	machinery.		7.3	Describe the purpose of the work programme and explain why deadlines should be kept in relation to:  - types of progress charts, timetables and estimated times  - organisational procedures for reporting circumstances which will affect the work programme.

Title:	Preparing, operating and controlling operations of road plant or machinery in the workplace			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
8 Comply with the given contract information to form and/or maintain roads by preparing, operating and controlling road plant or		<ul> <li>Demonstrate the following work skills when preparing, operating and controlling road plant or machinery:         <ul> <li>checking, setting up, adjusting, communicating, operating, controlling, securing, laying, stripping, compacting, marking, levelling and finishing.</li> </ul> </li> </ul>		
machinery to the respecification.	•	<ul> <li>8.2 Prepare, operate, control operations and shut down road plant or machinery to given working instructions relating to one of the following areas:         <ul> <li>Bituminous paving: for one of the following – screwman (screed operator), paver driver, roller driver, chipping machine driver, loader-compressor driver, sweeper operator, tanker/sprayer operator, geo-synthetic (membrane, mesh) installation, spray injection patching, thermal repair</li> <li>Concrete paving: as operator of one of the following – concrete paver, placer/spreader, slip form paver, texturing/curing machine</li> <li>Slurry/microsurfacing: as operator of one of the following – applicator, tanker, tipper grab, sweeper, roller</li> </ul> </li> </ul>		
		<ul> <li>8.3 Prepare, operate, control operations and shut down road plant or machinery to given working instructions relating to one of the following areas: <ul> <li>Surface dressing: as operator of one of the following – tanker, chipper, spray bar, tanker and chipper combined, roller, loader, linked tipper, sweeper</li> <li>High friction surfacing: as operator of one of the following – tanker, spray bar, chipper, sweeper</li> <li>Planing operations: as operator of one of the following – up to 500 mm without elevator; 500 mm –1 m with elevator; over 1 m with elevator</li> <li>Road recycling: as operator</li> <li>Soil stabilisation: as operator</li> </ul> </li> </ul>		
		<ul> <li>8.4 Prepare, operate, control operations and shut down road plant or machinery to given working instructions relating to one of the following areas: <ul> <li>Surface retexturing: as operator for one of the following – mechanical retexturing, mechanical repair, flailing, high pressure jetting, grinding, sweeper</li> <li>Pavement marking: as steersman/operator for white liner vehicle</li> <li>Highways drainage: as operator for one of the following – gully emptier, sweeper.</li> </ul> </li> </ul>		

Title:	Preparing, operating and controlling operations of road plant or machinery in the workplace		
Learning outcomes  The learner will be able to:		Assessment criteria The learner can:	
8 Continued		8.5	Safely use plant or machinery, tools, ancillary equipment and/or accessories.
		8.6	Safely store the plant or machinery, tools and equipment and/or accessories used when preparing, operating and controlling road plant or machinery.
		8.7	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:  - identify the work requirements and your occupational role  - identify the type of plant or machinery required  - confirm the area and location of work, the operations, safety and security requirements  - prepare, set up and carry out checks for performance of the plant or machinery  - carry out and control operations according to your role and the required performance of plant or machinery  - stop, shut down operations and secure plant or machinery  - use equipment and/or accessories.
		8.8	Describe the needs of other occupations and how to effectively communicate within a team when preparing, operating and controlling road plant or machinery.
		8.9	Describe how to maintain the plant or machinery and tools and equipment used when preparing, operating and controlling road plant or machinery.

Title:	Preparing, operating and controlling operations of road plant or machinery in the workplace						
Additional inform	Additional information about this unit						
Assessment Guida	ance	This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.  Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.					
		Workplace evidence of skills cannot be simulated.					
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.					
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction):					
		One of the following endorsements required:					
		Chipper Paver Spreader Planer					
Sector Subject are	ea .	5.2 Building and Construction					
Availability for use	9	Shared unit					
Unit credit value		49					
Unit guided learni hours	ng	40					



ProQual Awarding Body ProQual House Annie Med Lane South Cave HU15 2HG

Tel: 01430 423822

www.proqualab.com

enquiries@proqualab.com