

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 – Extracting	8
Pathway 3 – Excavating	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:

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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:
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The awarding body for this qualification is ProQual Awarding Body (www.proqualab.com) 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

Revision date 17/10/23

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	l: Level	2 NVQ Diplon	na in Plant O	perations (Cranes and S	pecialist Lifting)

Pathway 2:	Level 2 NVQ	Diploma in	Plant O	perations	(Extracting)

Pathway 4: Level 2 NVQ Diploma in Plant Operations (Constructing and Forming)

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			Additional Units for All Pathways CITB references and credit provided for information		
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 Ur	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				d credit values rmation 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			_		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	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 value 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 Ur	Mandatory Units			CITB references and credit value 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 values 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 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
Optional Units	Optional Units – 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.
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 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	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	onforming to productive working 2				
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		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	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
M/508/6585	Preparing and operating plant or machinery from a floating vessel in the workplace	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	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
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	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 outcomes The learner will be able to:		ment criteria rner can:
Comply with all workplace health, safety and welfare legislation requirements.		I	Comply with information from workplace inductions and any health, safety and welfare briefings attended relevant to the occupational area.
		1	Use health and safety control equipment safely to carry out the activity in accordance with legislation and organisational requirements.
		,	Comply with statutory requirements, safety notices and warning notices displayed within the workplace and/or on equipment.
		i ! ! ! !	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	State how the health and safety control equipment relevant to the work should be used in accordance with the given instructions.
		ı	State which types of health, safety and welfare legislation, notices and warning signs are relevant to the occupational area and associated equipment.
			State why health, safety and welfare legislation, notices and warning signs are relevant to the occupational area.
			State how to comply with control measures that have been dentified by risk assessments and safe systems of work.
2 Recognise haza with the workp	lace that have		Report any hazards created by changing circumstances within the workplace in accordance with organisational procedures.
not been previously contro and report them in accord with organisational procedures.	m in accordance	ä	List typical hazards associated with the work environment and occupational area in relation to resources, substances, asbestos, equipment, obstructions, storage, services and work activities.
			List the current Health and Safety Executive top ten safety risks.

Title: C	onforming to	genera	al health, safety and welfare in the workplace.
Learning outcomes The learner will be able	e to:		sment criteria arner 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		3.1	Interpret and comply with given instructions to maintain safe systems of work and quality working practices.
contribute to health, safety and welfare.	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	to general 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 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 Are	ea	05.2 Building and Construction				
Availability for use	9	Shared unit				
Credit value		2				
Unit guided learni	ng hours	7				

Title: Conformi		produ	active working practices in the workplace				
Unit Number :	T/508/6538						
Learning outcome The learner will be			Assessment criteria The learner 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		Interpret relevant information from organisational procedures in order to plan the sequence of work.				
sequence of work.		2.2	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	h the	3.1	Complete relevant documentation according to the occupation as required by the organisation.				
organisational j	oroccoures.	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.				
		3.3	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 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 Are	eas	5.2 Building and Construction		
Availability for use		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	
Unit Number: 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 op compact cranes 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 ope		erating compact 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 compact cranes.		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.		
		 4.2 Demonstrate compliance with given information and relevant legislation when carrying out lifting operations using compact 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 compact 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.		
of resources	antity and quality s to prepare for	5.1 Request and select resources associated with compact cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
	and carry out lifting operations using compact 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	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	Minimise the risk of damage to the work and surrounding area when preparing to and lifting and transferring loads.	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.
		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 co	mpact cranes to lift and transfer 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 lift, transfer and place loads using compact cranes to the required specification.		8.1	 Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using compact 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 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	
		8.7	 use, handle and store lifting accessories. 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 subjec	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		
Unit Number: J/508/6480			
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.
pedestrian operat cranes to lift, tran 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 oth sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
which lifting operations using pedestrian operated tower 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.
			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	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 of resources to prepare and seven as the second second seven as the second seven as the second second seven as the second second second seven as the second secon	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	o:	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	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	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	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.		 Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using pedestrian operated 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.	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.	 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.	- 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 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:		
		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 and operating excavator cranes to lift and transfer loads in the workplace		
Unit Number:	R/508/6482		
Learning outcomes The learner will be able t	o:		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, 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 com relevant legislation guidance when lift transferring loads excavator cranes.	n and official ing 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: Preparing an workplace		l 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.		 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: 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 excavator 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). 		
	2	4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
	4	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 excavator cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
and carry out lifting using excavator cra	-	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.		
	į	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 The learner will be able to:			ssment criteria Parner 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		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	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.		 Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using excavator 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 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	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 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		
Unit Number: F/508/6493			
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		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.	
		 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 telescopic handlers to lift and transfer loads. 	
2 Organise with oth sequence and ope	eration in	2.1 Organise the work according to given information or instructions.	
which lifting operations using telescopic handlers 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 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 operating telescopic handlers 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		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.		 Demonstrate compliance with given information and relevant legislation when carrying out telescopic handler operations 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 telescopic handler 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).
	2	4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
	4	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 telescopic handlers in relation to consumables, materials, tools, ancillary equipment and/or accessories.
and carry out telescopic handler operations.	•	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.
	į	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 telescopic handlers to lift and transfer loads in the		
	Learning outcomes		Assessment criteria		
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 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 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	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.		 Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using telescopic handlers: checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down. 		
	8	3.2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8	Prepare, set up and operate telescopic handlers to lift, transfer and place a variety of loads to given working instructions.		
	8	3.4 Shut down and secure telescopic handlers.		
	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 telescopic handler 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	- 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	3.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.		
	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	nation 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	eas	5.2 Building and Construction		
Availability for use	e	Shared unit		
Unit credit value		25		
Unit guided learni hours	ing	83		

Title:	Preparing and operating lorry loaders or knuckle booms to lift and transfer loads in the workplace		
Unit Number:	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		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.	
loaders/knuckle be 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 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.	
which lifting opera lorry loaders/knuc are to be carried c	kle booms	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 com relevant legislation guidance when lift transferring loads loaders/knuckle be	n and official ting and using lorry	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 an in the workp		d operating lorry loaders or knuckle booms to lift and transfer loads lace	
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 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.	
of resources to	itity and quality o prepare 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 operation using lorry loaders/knuckle 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 and operating lorry loaders or knuckle booms to lift and transfer loads in the workplace			
	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		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 in the workpla	d operating lorry loaders or knuckle booms to lift and transfer loads ace	
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.		 8.1 Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using lorry loaders/knuckle booms: – checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down. 	
	:	8.2 Use and maintain hand tools, ancillary equipment and/or accessories.	
	1	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.	
		 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 lorry loader/knuckle 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 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 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		30	
Unit guided learning hours		100	

Title:	Preparing and operating trailer-mounted concrete pumps to receive, pump and discharge materials in the workplace		
Unit Number: H/508/6504			
Learning outcomes The learner will be able t	ro:	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.	
concrete pumps to pumping and disclose 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 trailer-mounted concrete pumps. 	
2 Organise with oth sequence and ope	eration in	2.1 Organise the work according to given information or instructions.	
which pumping ar discharging opera concrete pumps a	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.	
		2.4 Describe how to organise resources prior to and during concrete pumping operations.	
3 Know how to com relevant legislatio guidance when ca pumping and discloperations using copumps.	n and official rrying out harging	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:		and operating trailer-mounted concrete pumps to receive, pump and naterials 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 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	5.1	Request and select resources associated with concrete pumps in relation to consumables, materials, tools, ancillary equipment and/or accessories.	
	and carry out pum operations using co 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:	Preparing and operating trailer-mounted concrete pumps to receive, pump and discharge materials in the workplace		
Learning outcomes The learner will be able to:			Assessment criteria The learner 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	7 Complete the work within the allocated time when preparing to and pumping and discharging materials using concrete pumps.		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:		operating trailer-mounted concrete pumps to receive, pump and rials in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
8 Comply with the given contract information to receive, pump and discharge materials using concrete pumps to the required	on to I discharge ncrete	 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.	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.	 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.	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	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		18	
Unit guided learning hours		60	

Title:		Preparing and operating boom-type mobile elevating work platforms (MEWP) in the workplace		
Unit Number: F/508/6509				
Learning outcomes The learner will be able to:				esment criteria
Interpret the given information relating to the preparation and using boomtype MEWPs to access areas		1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information.	
	rry out the		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 plant and machinery used as work platforms.
seque	ence and	others the operation in	2.1	Organise the work according to given information or instructions.
using	which accessing operations using boom-type MEWPs 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 accessing operations.
releva guida acces	3 Know how to comply with relevant legislation and official guidance when carrying out accessing operations using boom-type MEWPs.		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 boom-type mobile elevating work platforms (MEWP) 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 accessing operations using boom-type MEWPs.		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.
		 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 to	tity 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 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/procedures to operate boomtype mobile elevating work platforms used for accessing operations.
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.
	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	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	eparing and operating boom-type mobile elevating work platforms (MEWP) in the orkplace		
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		 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.		
		 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 boom-type MEWP used for accessing work identify valid certification for maintenance, inspection and thorough examination carry out function checks for accessing operation prepare, set up and adjust for operational requirements carry out pre-operational checks for obstructions, stability, and ground conditions affecting the work and surrounding area identify and remain aware of the area of operation to include potential entrapment situations use fall prevention equipment 		
		 check to avoid damage to structures and utilities service apparatus position and secure MEWP for accessing operations recognise and determine when specific skills and knowledge are required and report accordingly operate, manoeuvre, position, set down and secure operate and travel on the public highway shut down and secure the MEWP use hand tools, ancillary equipment and accessories. 		
		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 inform	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				
Credit value	14			
Unit guided learnin	ng 47			

Title:	Slinging and hand signalling the movement of suspended loads in the workplace				
Unit Number: 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		d 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.		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.		
		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: - safe use and storage of tools and equipment - safe use, storage and handling of lifting accessories - safe use of access 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 slinging and signalling of loads, 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 Select the required q and quality of resour prepare for and when	ces to	Select resources associated with slinging/signalling in relation to lifting accessories/aids, hand tools and ancillary equipment.		
and signalling loads.	5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to: — lifting accessories — signalling and communication equipment — hand tools and ancillary equipment.		
	5.3	Describe how the resources should be used correctly, and how problems associated with the resources are reported.		

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:		
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	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.	
	slinging and signall	ing ioads.	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 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		hand signalling the movement of suspended loads in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria		
8 Comply with the given contract information to prepare to and sling and signal suspended loads for movement to the required specification.		 8.1 Demonstrate the following work skills when preparing to and slinging and signalling loads: 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. 		
		8.2 Use and maintain lifting accessories, lifting aids and equipment.		
	-	8.3 Inspect and prepare lifting accessories prior to slinging.		
		 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: balanced unbalanced loose bundled container drum a load where the machine operator cannot observe its full movement path. 		
		 8.5 Guide, move and place suspended loads to specified destinations, using hand signals, to given working instructions for three of the following: balanced unbalanced loose bundled container drum a load where the machine operator cannot observe its full movement path. 		
		 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: 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 confirm the authority, duties and responsibilities allocated identify characteristics of lifting equipment and lifting accessories identify and interpret valid certification for maintenance, inspection and thorough examination 		

Title:	Slinging and hand s	nd 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	 lift and transfer people sling balanced, unbalanced, loose, live, bundled, container drum loads and loads that are blind to the equipment operator communicate using hand signals, hand signalling equipment (lights, wands, fluorescent gloves, flags) and electronic communication equipment (loud hailers, radios) confirm methods of communication recognise blind-spots, potential crush zones and other limitations to driver visibility consider the load characteristics including centre of gravity and lifting points to determine the method of slinging determine and check the route of the load before and during the lift including distances, clearances and landing position select, handle, inspect and use (assemble, set up and adjust) lifting accessories and aids identify rejection criteria for removing lifting accessories from service recognise and determine when specific skills and knowledge are required and report accordingly attach lifting accessories and sling loads securely ensure balance and stability of loads 		
		 ensure balance and stability of loads attach and use load guidance equipment (tag lines) guide and place suspended loads by recognised methods of communication and agreed operational procedures land and position loads safely and securely remove and store lifting accessories use hand tools and ancillary equipment. 		
	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.		

Title:	linging and hand signalling the movement of su	spended loads in the					
	workplace						
Additional inform	ion about this unit						
Assessment Guida	This unit must be assessed in a work environment. This unit must be assessed in a work environment and the Built Environment.						
	Assessors for this unit must have verifiable, and a sufficient depth of relevant occupation and must use a combination of assessment Consolidated Assessment Strategy.	onal expertise and knowledge,					
	Workplace evidence of skills cannot be sim	ulated.					
	This unit must be assessed against the endorelevant NVQ Structure.	orsements detailed within the					
	ProQual Level 2 NVQ Diploma in Plant Oper	rations (Construction):					
	The following endorsement required (i.e. o	wn area of work):					
	Slinger signaller – erector and dismantler o	nly					
Sector subject are	5.2 Building and Construction						
Availability for use	Shared unit						
Unit credit value	10						
Unit guided learni hours	33						

Title:	Operating plant or machinery for non-operational activities in the workplace				
Unit Number: F/508/6526					
Learning outcomes The learner will be able	e 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 activ	rities	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		
sequence in which	2 Organise with others the sequence in which the work is to be carried out when operating plant or machinery for non-operational activities.		Organise the work in accordance with given information or instructions.		
operating plant of machinery for no			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 comply with relevant, current legislation, special legal status documents, official guidance and organisational procedures when operating	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 machine operational activ	-	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 pla	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 non-operational 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 The learner will be able to:			Assessment criteria		
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	6 Minimise the risk of damage to the work and surrounding area when	1	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-operational activities.	6.2	Minimise damage and maintain a clean work space.	
	operational acti		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 w	me when	7.1	Demonstrate completion of the work within the allocated time.	
	operating plant machinery for n operational acti	ion-	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	Operating plant or machinery 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	Operating 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:	Oper	erating plant or machinery for non-operational activities 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.				
		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):				
		Two 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 learning hours		33				

Title: Preparing and operating		operating road/rail adapted plant in the workpla	ice	
Unit Number: 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		Interpret and extract relevant information f specifications, schedules, work package plan statements, risk assessments and manufact information.	ns, method	
be carried out.		.2 Comply with information and/or instruction risk assessments and method statements.	s derived from	
		.3 Describe the organisational procedures devi and rectify inappropriate information and u resources and how they are implemented.		
		 Describe different types of information, the they are interpreted in relation to: drawings, specifications, schedules, met lift plans, work package plans, risk asses certification and manufacturers' information operation of road/rail plant. 	thod statements,	
2 Organise with other sequence and ope	ration in	Organise the work according to given inforn instructions.	nation or	
which road/rail pla operations are to out.		 Describe how to communicate ideas between members. 	en team	
		 Organise and communicate with team mem associated occupations. 	bers and other	
		.4 Describe how to organise resources prior to road/rail plant operations.	and during	
3 Know how to comply with relevant legislation and official guidance when preparing to and carrying out road/rail plant operations.		 Describe their responsibilities regarding pot health hazards and the environment whilst in the workplace, below ground level, in at height, with tools and equipment, wire substances, with movement/storage of manual handling and mechanical lifting. 	working: confined spaces, th materials and materials and by	
		.2 Describe the organisational security procede equipment and personal belongings in relat workplace, company and operative.		
		 Explain what the accident reporting procedules is responsible for making reports. 	ures are and who	

Title: Preparing and operating road/rail adapted plant in the workplace		g road/rail adapted plant in the workplace	
Learning outcomes			nt criteria
4 Maintain safe and healthy working practices when preparing for and carrying out road/rail plant operations. Output Description:		wit acc	the health and safety control equipment safely and comply the the methods of work to carry out the activity in cordance with legislation and organisational requirements ring road/rail plant operations.
		leg	monstrate compliance with given information and relevant islation when carrying out road/rail plant operations in ation 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.
			plain why and when health and safety control equipment, entified by the principles of protection, should be used, ating to road/rail plant operations, and the types, purpose d limitations of each type, the work situation and general ork environment, in relation to: collective protective measures personal protective equipment (PPE) respiratory protective equipment (RPE) local exhaust ventilation (LEV).
			scribe how the relevant health and safety control uipment should be used in accordance with the given orking instructions.
		aco ski	scribe how emergencies should be responded to in cordance with organisational authorisation and personal lls when involved with fires, spillages, injuries and other k-related activities.
5 Request and select required quantity of resources to pro	and quality epare for	rel	quest and select resources associated with the work in attention to consumables, materials, tools, ancillary uipment, attachments and/or accessories.
and carry out road/rail plant operations.	/raii piant	lim	scribe the characteristics, quality, uses, sustainability, itations and defects associated with the resources, and w they should be used correctly, relating to: consumables, fittings, fuels, oils and lubricants hand tools, ancillary equipment and accessories.
			scribe how the resources should be used correctly and w problems associated with the resources are reported.
		de	plain why the organisational procedures have been veloped and how they are used for the selection of quired 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 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.		
	operating road/rail 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 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:		Assessment criteria		
8 Comply with the given contract information to prepare for and operate road/rail plant to the required specification.		Demonstrate the following work skills when preparing to use and operate road/rail plant: - preparing, manoeuvring, configuring, placing, travelling, negotiating, setting, operating and removing.		
Specification.	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	 procedures, report problems and establish authority needed to rectify, to: identify the characteristics of the road/rail plant for rail operations prepare, set up and adjust for operational requirements operate, maintain, shut down and secure road rail plant and machinery identify the documentation and certification requirements for road rail plant, machinery, equipment and attachments operate radios recognise current signalling systems in use for road/rail plant place plant and machine on and off the rails identify the criteria for movements within possessions recognise and avoid damage to axle counter equipment, force transducers and accelerometers 		
	8.6	 avoid damage to infrastructure, including track, line-side and under-track equipment supporting structures, routes of cables and services work on cants or gradients negotiate points and crossings move failed machines recognise and determine when specific skills and knowledge are required and report accordingly be on the public highway shut down and secure road/rail plant use hand tools, ancillary equipment and accessories. 		

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:	paring and operating road/rail adapted plant in the workplace					
Additional informa	ditional 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 – rough terrain forklift truck Road rail – telescopic handler Road rail – agricultural tractor					
Sector subject area	as 5.2 Building and Construction					
Availability for use						
Unit credit value	8					
Unit guided learnin hours	ng 26					

Title: Preparing and operating plant or machinery attachments in the wor		ing plant or machinery attachments in the workplace		
Unit Number: L/508/6528				
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, risk assessments and manufacturers' information.	
plant or machin attachments.	iery	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 o sequence and o	peration of	2.1	Organise the work according to given information or instructions.	
plant or machin attachment use	•	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 concept relevant legislate official guidance preparing and under machinery attack.	tion and e 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	Preparing and operating plant or machinery attachments in the workplace			
Learning outcomes			Assessment criteria		
The learner will be ab	ole to:	The le	arner 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 se required quant quality of resources	ity and urces to	5.1	Request and select resources associated with own work in relation to consumables, materials, attachments, tools and ancillary equipment.		
prepare for and machinery atta	•	5.2	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 The learner will be able to:	Assessment criteria The learner can:
8 Comply with the given contract information to prepare for and operate plant or machinery attachments to the required	8.1 Demonstrate the following work skills when preparing for and using attachments: - preparing, configuring, aligning, fitting, connecting, fastening, adjusting, securing, checking, manoeuvring, operating, disconnecting, removing and storing.
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 outcome The learner will be a			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 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 iib				
Contract Line Line		Lifting jib Crusher				
Sector subject are		5.2 Building and Construction				
Availability for use	9	Shared unit				
Unit credit value		7				
Unit guided learning hours		23				

Title: Moving, hand		ling and storing resources in the workplace
Unit Number: Y/508/6533		
Learning outcomes The learner will be able to:		Assessment criteria The learner 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.
resources.		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.
2 Know how to comply with relevant legislation and official guidance when moving, handling and/or storing resources.		 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.
3 Maintain safe practices whe handling and, resources.	en moving,	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		Assessment criteria The learner can:		
The learner will be able to: 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.	
			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 of resources for	4.1	Select the relevant resources to be moved, handled and/or stored, associated with own work.	
move, handle a	occupational resources. 4.3	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	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, handli		ing and	d storing resources in the workplace	
	Learning outcomes The learner will be able to:			arner can:
5 Prevent the risk of damage to occupational resources and surrounding		5.1	Protect occupational resources and their surrounding area from damage in accordance with safe working practices and organisational procedures.	
	environment wh handling and/or 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 wo	ne 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	7 Comply with the given occupational resource information to move, handle and/or store resources to the required guidance.	ource nove, tore	7.1	Demonstrate the following work skills when moving, handling and/or storing occupational resources: – moving, positioning, storing, securing and/or using lifting aids and kinetic lifting techniques.
		7.2	Move, handle and/or store occupational resources to meet product information and organisational requirements relating to three of the following: - sheet material - loose material - bagged or wrapped material - fragile material - tools and equipment - components - liquids.	
			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 and/or storing resources.

Title:	Moving, handling and storing resources in the workplace			
Additional inform	Additional information about this unit			
Assessment Guida	nnce	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		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, trans place loads.	sier 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.	
sequence and ope	sequence and operation in		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.	 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: 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 crawler 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.		
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.		

Tit	le:	Preparing and operating crawler cranes above 10 tonnes to lift and transfer loads in the workplace			
	Learning outcomes		Assessment criteria		
The	e learner will be able to	D:	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 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	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 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.		 Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using crawler cranes: checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down. 		
	8.2	Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.5	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.		
	8.5	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	9	Shared unit		
Unit credit value Unit guided learning hours		80		
		265		

Title: Preparing ar		nd oper	ating tower cranes to lift and transfer loads in the workplace
Unit Number: K/508/6567			
Learning outcomes The learner will be able to:			sment criteria arner 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.
		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 tower 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 tower cranes are t 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 tower cranes.
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using 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	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 tower cranes to lift and transfer loads in the work		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.	 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: 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 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.		
required quantity of resources to pre	5 Request and select the required quantity and quality of resources to prepare 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	e: Preparing 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	erating tower cranes to lift and transfer 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 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 - 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 tower cranes to lift and transfer loads in the workplace		
Additional inform	ation ab	oout 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. 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	9	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		
Unit Number:	M/508/6568	68	
Learning outcomes The learner will be able to:			sment criteria arner 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, 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 mobile 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 mobile cranes are 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 mobile cranes.
relevant legislation guidance when lift	relevant legislation and official guidance when lifting and transferring loads using mobile		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.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

Title:	Preparing and workplace	aring and operating mobile cranes to lift and transfer loads in the cplace		
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 cranes.		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.		
		 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: 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 mobile 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 a of resources to pre	and 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 busing mobile 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.		

Tit	le:	Preparing and operating mobile cranes to lift and transfer loads in the workplace			
	Learning outcomes		Asses	Assessment criteria	
The	The learner will be able to:		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 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	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 operating	operating mobile cranes to lift and transfer loads in the workplace	
Learning outcomes		Asses	ssment 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 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:	Preparing and operating mobile 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:		
		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 valu		95		
Unit guided lea		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:		sessment criteria e learner can:	
Interpret the given information relating to the preparation and use of side booms to lift, transfer and		Interpret and extract relevant info specifications, schedules, method assessments and manufacturers' in	statements, lift plans, risk
place loads.	sier and	Comply with information and/or in risk assessments and method state	
		Describe the organisational proced and rectify inappropriate informat resources and how they are impler	ion and unsuitable
		Describe different types of informathey are interpreted in relation to: - drawings, specifications, scheorisk assessments, manufacture regulations governing the open side booms to lift and transfer	lules, method statements, ers' information and current ration of crawler-tractor
2 Organise with other sequence and ope	ration in	Organise the work according to given instructions.	ren information or
which lifting opera side booms are to out.	•	Describe how to communicate idea members.	as between team
		Organise and communicate with to associated occupations.	eam members and other
		Describe how to organise resource operations with side booms.	s prior to and during lifting
3 Know how to com relevant legislation guidance when lift transferring loads booms.	n and official ting and	Describe their responsibilities rega health hazards and the environme in the workplace, below groun at height, with tools and equip substances, with movement/st manual handling and mechanic	nt whilst working: d level, in confined spaces, ment, with materials and torage of materials and by
		Describe the organisational securit equipment and personal belonging workplace, company and operative	gs in relation to site,
		Explain what the accident reportin is responsible for making reports.	g procedures are and who

Title:	Preparing and operating crawler-tractor side booms to lift and transfer loads in the workplace		
	g outcomes ner 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. 	
		 4.3 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.	
reque	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.	

Titl	le:	Preparing and operating crawler-tractor side booms to lift and transfer loads in the workplace		wler-tractor side booms to lift and transfer loads in the
	Learning outcomes The learner will be able to:			earner 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	the risk of damage ork and surrounding on 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	te the work within the	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 the workplace	-	ating crawler-tractor side booms to lift and transfer loads in
Learning outcomes The learner will be able to:			ment criteria erner can:
8 Comply with the given contract information to lift, transfer and place loads using side booms to the required specification.		8.1	Demonstrate the following work skills when preparing for, lifting, transferring and placing loads using side booms: - checking, adjusting, communicating, operating, manoeuvring, positioning, lifting, transferring and setting down.
	8	8.2	Use and maintain hand tools, ancillary equipment and/or accessories.
	8	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	8.4	Shut down and secure side booms.
		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 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	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	8.8	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	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 areas Availability for use		5.2 Building and Construction	
		Shared unit	
Unit credit value		50	
Unit guided learning hours		160	

Title:	Preparing ar the workpla	-	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:
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 for extra operations.	icting	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.
2 Organise with oth sequence and ope	eration in	2.1	Organise the work according to given information or instructions.
which extracting of using draglines are carried out.	e to be	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.
3 Know how to com relevant legislatio guidance when ca extracting operati draglines.	n and official rrying out	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 the workplace	aring and operating draglines 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 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.		
		 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: 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). 		
		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 to required quantity are of resources to prepare	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	-	 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 at the workpla		-	rating draglines to extract ground and/or loose materials in	
	Learning outcomes The learner will be able to:		7.000	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, 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		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	extracting materia	tracting 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	Complete the work	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 o	operating draglines to extract ground and/or loose materials in	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
8 Comply with the given contract information to extract materials using draglines to the required specification.		 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	 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	 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 and commodities safely and securely form and remove stockpiles be on the public highway shut down and secure 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 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	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 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/508/6573		_	
Learning outcomes The learner will be able t	o:		ssment criteria arner 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 other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
which extracting a excavating operat 180 degree excava	erations using cavators are to	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.
relevant legislation guidance when ca extracting and exc	relevant legislation and official guidance when carrying out extracting and excavating operations using 180 degree		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 180 degree excavators to extract and excavate ground aterials 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 and excavating		1.1 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 and excavating operations.	
operations using 18 excavators.	_	 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: safe use and storage of plant or machinery safe use and storage of tools and equipment specific risks to health. 	
	4	1.3 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: - collective protective measures - personal protective equipment (PPE) - respiratory protective equipment (RPE) - local exhaust ventilation (LEV).	
	4	1.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	
	4	1.5 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	Request and select resources associated with 180 degree excavators in relation to consumables, materials, attachments, tools, ancillary equipment and/or accessories.	
•	arry out extracting and rating operations using 5.2 legree excavators.	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/excavation aids - hand tools, ancillary equipment and accessories.	
	5	5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.	

Tit			-	rating 180 degree excavators to extract and excavate ground s in the workplace
	Learning outcomes			sment 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.	avatilig	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 preparir	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.

Title:	Preparing and operating 180 degree excavators to extract and excavate ground and loose materials in the workplace		
Learning outcomes The learner will be able t		sessment criteria e learner can:	
8 Comply with the given contract information to extract materials using 180 degree excavators to the required specification.		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.	
		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	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 - recognise and determine when specific skills and	
	8.0	 knowledge are required and report accordingly extract, excavate, remove and load materials safely and securely form stockpiles be on the public highway shut down and secure 180 degree excavator use hand tools, ancillary equipment and accessories. 	

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	ation al	oout 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 is required: Excavator 180 degree wheeled below 5 tonne Excavator 180 degree wheeled above 5 tonne			
Sector subject are	as	5.2 Building and Construction			
Availability for use		Shared unit			
Unit Credit value		80			
Unit guided learning hours 266		266			

Title:	Preparing and operating tracked loading shovels to extract ground and loose materials in the workplace			
Unit Number: T/508/6572				
Learning outcomes The learner will be able to:			ssment criteria arner can:	
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.	
			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.	
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.	
which extracting o using tracked load are to be carried o	ing shovels	2.2	Describe how to communicate ideas between team members.	
		2.3	Organise and communicate with team members and other associated occupations.	
			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.	
			Explain what the accident reporting procedures are and who is responsible for making reports.	

	Preparing and operating tracked loading shovels to extract ground and loose naterials 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.	 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: 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 tracked loading shovel 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 qua of resources to prepare fo		
and carry out extracting operations using tracked loading shovels.	 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.	

Tit	le:	Preparing and operating tracked loading shovels to extract ground and loo 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		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	extracting materia	IS.	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 t	d operating tracked loading shovels to extract ground and loose 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 tracked loading shovels to the required specification.		 Demonstrate the following work skills when preparing for and extracting loose materials and ground using tracked loading shovels: 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 tracked loading shovels to given working instructions extract ground, face and/or loose materials load and/or stockpile loose materials. 	
		8.4 Shut down and secure tracked loading shovels.	
		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 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.	
		8.7 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 tracked loading shovels to extract ground and 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	е	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		
Unit Number: 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		1.1	Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
motorised scraper extraction and distortion operations.		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 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.

		and operating motorised scrapers to extract, transport and distribute 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 extraction and distribution		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.		
	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: - 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 of resources to prepare	d quality ire for	Request and select resources associated with motorised scrapers in relation to consumables, materials, attachments, tools, ancillary equipment and/or accessories.		
and carry out extraction and distribution operations using motorised scrapers.		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/distribution 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	le:	Preparing and operating motorised scrapers to extract, transport and distribute 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.	Tibuting	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 op materials in the v	erating motorised scrapers to extract, transport and distribute workplace		
Learning outcomes		Assessment criteria		
The learner will be able to:		learner can:		
8 Comply with the given contract information to extract and distribute materials using motorised scrapers to the required specification.		Demonstrate the following work skills when preparing for and extracting and distributing loose materials using motorised scrapers: - checking, adjusting, communicating, manoeuvring, positioning, extracting, distributing, forming, removing and loading.		
	8.2	Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.3	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	Shut down and secure motorised scrapers.		
	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 motorised scraper used for the extraction and distribution operation - carry out function checks for the extraction and distribution 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, load, transport and lay materials safely and securely form stockpiles be on the public highway shut down and secure the motorised scraper 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 extraction and distribution operations.		
	8.8	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	Additional information 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 areas		5.2 Building and Construction		
Availability for use		Shared unit		
Unit Credit value		80		
Unit guided learning hours		267		

Title:	Preparing and operating trenchers to extract ground and/or loose materials in the workplace		
Unit Number: F/508/6574			
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		1.1 Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.	
trenchers for extra operations.	acting	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 trenchers for extraction work. 	
2 Organise with oth sequence and ope	ration in	2.1 Organise the work according to given information or instructions.	
which extracting on using trenchers 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 extracting operations using trenchers.	
3 Know how to comply with relevant legislation and official guidance when carrying out extracting 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. 	
		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 trenchers to extract 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 extracting 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 extracting operations.		
trenchers.	4	 Demonstrate compliance with given information and relevant legislation when carrying out extracting 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	1.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
	4	1.5 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	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.	_	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.		
		Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Tit	Title: Preparing and operating trenchers to extract ground and/or the workplace		rating trenchers to extract ground and/or loose materials in		
	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 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 materials.	is.	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 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 trenchers to the required		Demonstrate the following work skills when preparing for and extracting loose materials, face or ground using trenchers: - checking, adjusting, communicating, manoeuvring, positioning, extracting, forming, removing and loading.		
specification.	8.2	Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.3	Prepare, position, set up and operate trenchers to given working instructions – extract ground, face or loose materials – stockpile loose materials.		
	8.4	Shut down and secure trenchers.		
	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 trenchers 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		
	8.6	identify geological environmental and material changes and		
	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 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		50	
Unit guided learning hours		160	

Title:	Preparing and operating 360 degree excavators to extract ground, face and/or loose materials in the workplace		
Unit Number: J/508/6575			
Learning outcomes The learner will be able t	o:		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	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.

Title:	Preparing and operating 360 degree excavators to extract ground, face 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 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.		
360 degree excava	itors.	 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: 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 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 degree 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.		

Tit	le:	Preparing and operating 360 degree excavators to extract ground, face and/or loose materials in the workplace			
	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 extracting operations using 360 degree excavators.	
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.	
	extracting materials.	IS.	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 360 degree excavators to extract ground, face and/or loose materials 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 extract materials using 360 degree excavators to the required specification.		Demonstrate the following work skills when preparing for and extracting ground and/or loose materials using 360 degree excavators: - checking, adjusting, communicating, manoeuvring, positioning, extracting, forming, removing and loading.		
	8.2	Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.3	to given working instructions		
		 extract from a face, loose materials and/or ground 		
		 load and/or stockpile extracted loose materials. 		
	8.4	Shut down and secure 360 degree excavators.		
	8.5	 procedures, report problems and establish authority needed to rectify, to: identify the characteristics of the 360 degree excavator 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 		
	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 360 degree excavators to extract ground, face and/or loose materials in the workplace				
Additional inform	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:				
	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 and operating crawler tractor dozers to carry out dozer operations in the workplace		
Unit Number:	Unit Number: L/508/6576		
Learning outcomes The learner will be able t	o:		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.	dozer	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 tractor dozers for dozer operations.
sequence and ope	sequence and operation in		Organise the work according to given information or instructions.
which dozer opera crawler tractor do 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 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 operating crawler tractor dozers to carry out dozer operations 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 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.		 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: 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 crawler tractor dozer 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 t required quantity an of resources to prepare	nd 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.	 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 plant or machinery 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.		

		Preparing ar	paring and operating crawler tractor dozers to carry out dozer operations in 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 e workplace
Learning outcomes The learner will be able to:	Assessment criteria The learner can:
8 Comply with the given contract information out dozer operations crawler tractor dozers required specification	extracting, excavating, laying and distributing materials using crawler tractor dozers: to the — checking, adjusting, communicating, manoeuvring,
	8.2 Use and maintain hand tools, ancillary equipment and/or accessories.
	 8.3 Prepare, set up, position and operate crawler tractor dozers to given working instructions extract, excavate and move different types of materials lay or distribute materials form and/or stockpile materials.
	8.4 Shut down and secure crawler tractor dozers.
	 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 crawler tractor dozer used for the dozer operation carry out function checks for the dozer operation prepare, set up and adjust for operational requirements identify the area of work 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 - 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 inform	ation a	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:	
		Extract Excavate Construct/form Lay/distribute	
Sector subject are	as	5.2 Building and Construction	
Availability for use	9	Shared unit	
Unit Credit value		80	
Unit guided learni hours	ng	266	

Title: Preparing and operating draglines to excavate ground materials in the work			draglines to excavate ground materials in the workplace	
Unit Number:	R/508/6577			
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, 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.	
			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.	
	vating operations nes are to be	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 materials in the workplace			
Learning outcon		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.		
uragimes.	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). 		
		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	antity and quality s to prepare for	5.1 Request and select resources associated with draglines in relation to consumables, materials, attachments, tools and ancillary equipment.		
•	and carry out excavating operations using 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				
	arning outco		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 draglines.	
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	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	7 Complete the work within the allocated time 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 o	rating draglines	to excavate ground materials in the workplace		
Learning outcome		Assessment criteria The learner can:			
8 Comply with the given contract information to excavate materials using draglines to the required specification.	the given mation to erials using	8.1 Demonst excavatir – chec	rate the following work skills when preparing for_and ng ground using draglines: king, adjusting, communicating, operating, peuvring, positioning, excavating, measuring and bying.		
		8.2 Use and accessor	maintain hand tools, ancillary equipment and/or es.		
		working – exca – load	position, set up and operate draglines to given instructions to: vate ground or stockpile excavated ground and/or loose trials.		
		8.4 Shut dow	n and secure draglines.		
		procedur to rectify - ident excav - carry - ident - prepa - carry stabi area - ident and r - chect appa	how to apply safe and healthy work practices, follow res, report problems and establish authority needed res, to: ify the characteristics of the dragline used for vating operations out function checks for excavation work ify the area to be excavated are, set up and adjust for operational requirements out pre-operational checks for obstructions, lity, safety and security of the work and surrounding ify geological, environmental and material changes report x to avoid damage to structures and utilities service ratus gnise and determine when specific skills and		
	know excav form use e be or excav shut	vate and determine when specific skins and vledge are required and report accordingly vate accurately to line and level stockpiles equipment to gauge and measure in the public highway vate, remove and load materials safely and securely down and secure the dragline land tools, ancillary equipment and accessories.			
		effective	the needs of other occupations and how to ly communicate within a team when preparing for ving out excavating operations.		
			how to maintain the plant and machinery, hand cillary equipment and accessories used to excavate s.		

Title:	Preparing and operating draglines to excavate ground materials in the workplace		
Additional	information 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 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	
Unit Number: Y/508/6578				
Learning outcomes The learner will be able to:		Assessment criteria The learner 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.	
_	avators 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.	
		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 excavation work.	
sequence a	ith others the nd operation in	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 excavating	to comply with gislation 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 operat	ring 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.		
300 degi	ee excavators.	 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: 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 360 degree excavator 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.		
required of resour	5 Request and select the required quantity and quality of resources to prepare for and carry out excavating operations using 360 degree excavators.	5.1 Request and select resources associated with 360 degree excavators in relation to consumables, materials, attachments, tools and ancillary equipment.		
operatio		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	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	7 Complete the work within the 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 op	erating 360 degree excavators to excavate ground 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 360 degree excavators to the required specification.	 8.1 Demonstrate the following work skills when preparing for_and excavating ground using 360 degree excavators: checking, adjusting, communicating, operating, manoeuvring, positioning, excavating, measuring and removing.
	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 to: – excavate a variety of ground – load or stockpile excavated loose materials.
	8.4 Shut down and secure 360 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 360 degree excavator 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
	8.6 - 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				
	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 area	5.2 Building and Construction			
Availability for use	Shared unit			
Unit Credit value	80			
Unit guided learning hours	ng 266			

Title: Preparing an		nd opera	ating trenchers to excavate ground in the workplace
Unit Number: D/508/6579			
Learning outcomes The learner will be able to:			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.
trenchers to carry 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 trenchers for excavation work.
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
which excavating of using trenchers are 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 trenchers.
3 Know how to com relevant legislation guidance when ca excavating operations.	n and official rrying out	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 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 trenchers to excavate ground in the workplace				
Learning outcomes The learner will be able to	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		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.		
trenchers.	trenchers.	4.2	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.		
		4.3	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: - 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.		
5 Request and select required quantity of resources to pre	and quality epare for	5.1	Request and select resources associated with trenchers in relation to consumables, materials, attachments, tools and ancillary equipment.		
and carry out excavating 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 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	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	115.	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		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.		 8.1 Demonstrate the following work skills when preparing for_and excavating ground using trenchers: checking, adjusting, communicating, operating, manoeuvring, positioning, excavating, measuring and removing.
		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.
		 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 trenchers 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 - 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	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		50		
Unit guided learning hours		215		

Title:	Preparing and operating tracked loading shovels to excavate ground and loose materials in the workplace		
Unit Number:	R/508/6580		
Learning outcomes The learner will be able t	o:		sment criteria arner 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 other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
which excavating of using tracked load are to be carried of	ing 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.
			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 excavate 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 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.	 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: 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 tracked loading shovel 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 qua of resources to prepare for	
and carry out excavating operations using tracked loading shovels.	 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	le:	Preparing and operating tracked loading shovels to excavate ground and loose materials in the workplace			
	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 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	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	115.	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 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 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 g contract informati excavate materials tracked loading sh required specificat	on to s using ovels to the	 Demonstrate the following work skills when preparing for_and excavating ground using tracked loading shovels: checking, adjusting, communicating, operating, manoeuvring, positioning, excavating, measuring and removing. 		
	1	8.2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8	 Prepare, position, set up and operate tracked loading shovels to given working instructions to: excavate ground and/or loose materials load or stockpile excavated ground and/or loose materials. 		
	3	8.4 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 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.		
	1	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	8.8 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	nation 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 ar materials in		-	rating graders to form and shape ground and/or loose orkplace
Unit Number: Y/508/6581			
Learning outcomes The learner will be able	to:		earner can:
1 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 operations.	ng	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	eration in	2.1	Organise the work according to given information or instructions.
	which forming operations using graders 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 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.

Title:	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.		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: - 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 grader 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 selecting required quantity of resources to presources to presources.	and quality epare 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	ile:	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:		
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	ising 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	Complete the work was	en preparing	7.1	Demonstrate completion of the work within the allocated time.		
	to and forming ground using graders.		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:		ng and operating graders to form and shape ground and/or loose Is 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 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. 		
		8.2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8	8.3 Prepare, set-up, position and operate graders to form and shape loose materials and/or ground to given working instructions.		
	8	8.4 Shut down and secure graders.		
	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 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	 check to avoid damage to structures and utilities service apparatus form and shape materials safely and securely recognise and determine when specific skills and knowledge are required and report accordingly complete construction and formation work be on the public highway shut down and secure the graders use hand tools, ancillary equipment and accessories. 		
	8	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	8.8 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	
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	9	Shared unit	
Unit Credit value Unit guided learning hours		70	
		233	

Title: Preparing an		nd oper	ating formwork rigs to construct and form in the workplace	
Unit Number: D/508/6582				
Learning outcomes The learner will be able to	Learning outcomes The learner will be able to:		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 fo 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 gs are to be	perations using rigs are 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 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.	
		3.2	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:
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.	
TOTHI.	form.	 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: 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 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.
5 Request and select t required quantity ar of resources to prep	nd quality pare and	5.1 Request and select resources associated with formwork rigs in relation to consumables, materials, tools, ancillary equipment and accessories.
	operate formwork rigs to carry out constructing and forming operations	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.

Tit	:le:	Preparing and operating 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	rrounding ng and	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	en preparing	7.1	Demonstrate completion of the work within the allocated time.	
	and operating formwork rigs to carry out constructing and forming operations.	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: P	reparing and op	erating 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 ar	en 8.1 to struct and	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 required 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 - 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.		
		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						
Additiona	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 credit value		52					
Unit guided learning hours		173					

Title:			rating truck-mounted boom concrete pumps to receive, pump erials in the workplace
Unit Number: H/508/6583			
Learning outcomes The learner will be able t	o:		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 disch 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 truckmounted boom concrete pumps.
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
discharging operat	ncrete pumps are to be ried out.	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:		paring and operating truck-mounted boom concrete pumps to receive, p		
	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 pumping 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 concrete pumping operations.		
	concrete pumps.			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.	
				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	5 Request and select the required quantity and quality of resources to prepare for and carry out pumping operations using concrete pumps.	and quality pare for	5.1	Request and select resources associated with concrete pumps 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 load coverings - hand tools, ancillary equipment and accessories.	

Tit			nd operating truck-mounted boom concrete pumps to receive, pump ge 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 wher	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:		nd operating truck-mounted boom concrete pumps to receive, pump ge 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 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	 recognise and determine when specific skills and knowledge are required and report accordingly identify the area for pumping check to avoid damage to structures and utilities service apparatus receive, and pump and discharge materials safely and securely be on the public highway shut down and secure the concrete pump 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 pumping and discharging operations.		
	8.8	Describe how to maintain the plant and machinery, hand tools and ancillary equipment used pumping and discharging operations.		

	Preparing and operating truck-mounted boom concrete pumps to receive, pump and discharge materials in the workplace			
Additional information about this unit				
Assessment Guidar	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.		
Sector subject area	S	5.2 Building and Construction		
Availability for use		Shared units		
Unit Credit value		70		
Unit guided learnin	g hours	233		

Title:	Preparing ar workplace	reparing and operating soil stabilisers to lay and distribute materials in the orkplace			
Unit Number: K/508/6584					
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 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.		
2 Organise with oth sequence and ope	ration in	2.1	Organise the work according to given information or instructions.		
which laying and on operations using s stabilisers are to be	oil	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	nd 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 healthy working practices when preparing for and carrying out laying and distribution	vhen arrying out ion	.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 laying and distribution operations.		
operations using so stabilisers.		 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: safe use and storage of plant or machinery safe use and storage 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 soil stabiliser 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	nd quality pare for	.1 Request and select resources associated with soil stabilisers in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
and carry out laying and distribution operations us soil stabilisers.		 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. 		
		.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Tit	le:	Preparing ar workplace	nd ope	rating soil stabilisers to lay and distribute materials in the			
	arning outcomes e learner will be able to	o:		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 laying and distribution operations using soil stabilisers.			
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.			
	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	l 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		 Demonstrate the following work skills when preparing for and laying and distributing materials using soil stabilisers: checking, adjusting, communicating, manoeuvring, positioning, mixing, laying, distributing and compacting. 		
specification.	8	8.2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8	8.3 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	8.4 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. 		
	8.7	8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out laying and distribution operations.		
	8	8.8 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 information 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:					
	Soil stabiliser self-propelled Soil stabiliser towed					
Sector subject area	as 5.2 Building and Construction					
Availability for use	Shared unit					
Unit credit value	40					
Unit guided learnir hours	ng 133					

Title: Preparing an workplace		nd ope	rating plant or machinery from a floating vessel in the
Unit Number: M/508/6585		5	
Learning outcomes The learner will be able to	o:		ssment criteria earner can:
Interpret the given information relation 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 from 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.
		1.4	Describe different types of information, their source and how they are interpreted in relation to: - drawings, specifications, schedules, method statements, lift plans, risk assessments, manufacturers' information and current regulations governing operations from, and with, a floating vessel.
2 Organise with oth sequence and ope	ration 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	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.
relevant legislatio guidance when ca plant or machiner	3 Know how to comply with relevant legislation and official guidance when carrying out plant or machinery operations from a floating vessel.		Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: — 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.
			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	and operating 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 from a floating vessel.	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.		
		sei.	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	of resources to prepare fo	equired quantity and quality f resources to prepare 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		
	arning 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	7 Complete the work within the allocated time when preparing to and carrying out work from a floating vessel.		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	erating 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		 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 required 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.
		 8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: mobilise and demobilise plant for floating vessel operations identify the restrictions on plant and machinery when operating on a floating vessel counter the effects of floating vessel movement during plant and machinery operations carry out function checks for the control of plant and machinery on the floating vessel confirm the area of work for the operation recognise operational limitations and de-ratings confirm safety and security requirements recognise and determine when specific skills and knowledge are required and report accordingly synchronise movements with other plant and machinery on a floating vessel
		8.6 – 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.		

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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	
Sector subject areas	3.2 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:	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, operating instructions and manufacturers' information.	
powered units, too pedestrian plant, r equipment.		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, legislation, Codes of Practice, manufacturers' information and operating instructions. 	
2 Know how to com relevant legislation guidance to prepa powered units, too pedestrian plant, requipment.	n and official re and use ols or	 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. 	
		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 reports.	

Titl	le:	-	eparing and operating powered units, tools or pedestrian plant, machinery or uipment in the workplace	
Learning outcomes			ssment 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.
		ols or	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:	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment 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, n		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	 7.1 Demonstrate the following work skills when using powered units, tools or pedestrian plant, machinery or equipment: starting, stopping, replenishing, controlling and cleaning.
or pedestrian plan or equipment to the specification.		7.2 Use and maintain powered units, tools and ancillary equipment.
		 7.3 Operate and monitor powered units and tools or pedestrian plant, machinery or associated equipment to given working instructions relating to: continual running closing down cleaning.
	;	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 — operate, use and control - 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	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:			
		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 learning hours		23			

Title:	Title: Erecting and dismantling plant (cranes and rigs) in the workplace		ntling plant (cranes and rigs) in the workplace
Unit Number: F/508/6588			
Learning outcomes The learner will be able	to:		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 oth sequence and ope	eration 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 legislatio guidance when en 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.
			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:	Erecting and o	Erecting and dismantling plant (cranes and rigs) in the workplace		
	arning outcomes e learner will be able to		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when carrying out erecting and dismantling of plant.		when ng 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 erecting and dismantling operations.		
			 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: safe use and storage of plant safe use and storage of tools and equipment safe use of access 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 erecting and dismantling plant, 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	5 Request and select the required quantity and quali of resources to carry out erecting and dismantling of plant.	and quality ry out	5.1 Request and select resources associated with the work in relation to consumables, materials, attachments, tools, and ancillary equipment.		
		_	 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	en erecting	7.1	Demonstrate completion of the work within the allocated time.	
	and dismantling plant.		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 di	ismantling plant (cranes and rigs) in the workplace
Learning outcomes The learner will be able to:		Assessment criteria The learner can:
8 Comply with the given contract information to erect and dismantle plant to the required specification.	iven 8 on to erect nt to the	Demonstrate the following work skills when erecting and dismantling plant: – unloading, loading, siting, measuring, marking out, laying out, aligning, fitting, positioning, connecting, configuring, dismantling, removing, adjusting, securing, checking and inspecting.
	8	Use and maintain hand tools, portable power tools, ancillary equipment and machinery.
	8	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.
		Describe how to apply safe and healthy work practices, follow 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
		 complete function checks use access equipment use hand tools, power tools, plant and equipment record and report.
	8	Describe the needs of other occupations and how to effectively communicate within a team when preparing for and erecting and dismantling plant.
		3.7 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 area		5.2 Building and Construction			
Availability for use	e	Shared unit			
Unit credit value		36			
Unit guided learni hours	ing	130			

Title:	Preparing, operating and controlling operations of road plant or machinery in the workplace			
Unit Number: J/508/6589				
Learning outcome			ssment criteria varner 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.	
sequence in v	sequence in which the		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 legis 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 hea working practices whe preparing, operating a controlling road plant	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.		
	 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: 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 w	in relation to tools, ancillary equipment and/or accessories.		
preparing, operating a controlling road plant machinery.			
	5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Title: Preparing, ope in the workpla		erating and controlling operations of road plant or machinery ace		
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	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, operating and controlling road plant or machinery.	_	6.2	Minimise 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	the allocated tim preparing, opera controlling road	ime when rating and	7.1	Demonstrate completion of the work within the allocated time.
			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, ope	erating and controlling operations of road plant or machinery in	
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		 Demonstrate the following work skills when preparing, operating and controlling road plant or machinery: checking, setting up, adjusting, communicating, operating, controlling, securing, laying, stripping, compacting, marking, levelling and finishing. 	
machinery to the required specification.	· · · · · · · · · · · · · · · · · · ·	 8.2 Prepare, operate, control operations and shut down road plant or machinery to given working instructions relating to one of the following areas: 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 Concrete paving: as operator of one of the following – concrete paver, placer/spreader, slip form paver, texturing/curing machine Slurry/microsurfacing: as operator of one of the following – applicator, tanker, tipper grab, sweeper, roller 	
		 8.3 Prepare, operate, control operations and shut down road plant or machinery to given working instructions relating to one of the following areas: Surface dressing: as operator of one of the following – tanker, chipper, spray bar, tanker and chipper combined, roller, loader, linked tipper, sweeper High friction surfacing: as operator of one of the following – tanker, spray bar, chipper, sweeper 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 Road recycling: as operator Soil stabilisation: as operator 	
		 8.4 Prepare, operate, control operations and shut down road plant or machinery to given working instructions relating to one of the following areas: Surface retexturing: as operator for one of the following – mechanical retexturing, mechanical repair, flailing, high pressure jetting, grinding, sweeper Pavement marking: as steersman/operator for white liner vehicle Highways drainage: as operator for one of the following – gully emptier, sweeper. 	

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 informa	Additional information about this unit						
Assessment Guida	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 Tanker Sprayer						
Sector Subject area	5.2 Building and Construction						
Availability for use	Shared unit						
Unit credit value	49						
Unit guided learnir hours	g 40						



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