

Level 2 NVQ Diploma in Plant Operations (Construction)

Qualification Specification

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Introduction

The ProQual Level 2 NVQ Diploma in Plant Operations (Construction) qualification provides a nationally recognised qualification for plant operatives following one of 10 Pathways relating to their work roles:

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Level 2 NVQ Diploma in Plant Operations (Cranes and Specialist Lifting)
Pathway 1:
Pathway 2:
              Level 2 NVQ Diploma in Plant Operations (Extracting)
Pathway 3:
              Level 2 NVQ Diploma in Plant Operations (Excavating)
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)
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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 01/07/2016

Qualification review date 16/12/2025

Next review date 16/12/2028

Qualification end date

Entry Requirements

There are no formal entry requirements for this qualification.

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

Qualification Structure

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

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

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

Mandatory Units for all Pathways			CITB references and credit 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

Pathways

There are 10 Pathways, the Mandatory/Optional unit requirements for each are listed from page 7.

Pathway 1:	Level 2 NVQ Diploma in Plant Operations (Cranes and Specialist Lifting)
raciiway 1.	Level 2 IV & Diploma III Flame Operations (Granes and Specialist Enting)

Pathway 2: Level 2 NVQ Diploma in Plant Operations (Extracting)

Pathway 3: Level 2 NVQ Diploma in Plant Operations (Excavating)

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)

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

Pathway 2: Extracting

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

Pathway 3: Excavating

Mandatory Units			CITB references and credit 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 Units			CITB references and credit value provided for information only		
Unit Ref.	Title	Level	Credit CITB CITB RIT Value Unit Ref. Unit Ref.		
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
Optional Units	s – complete ONE unit		CITB references and credit values provided for information only		
Unit Ref.	Title	Level	Credit Value	CITB Internal Unit Ref.	CITB RITS Unit Ref.
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	2	52	390Dv1	J/506/9050

Pathway 5: Transporting Loads

Candidates must complete THREE Mandatory Units.

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

Pathway 6: Laying and Distributing

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

Pathway 7: Road/Rail

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

Pathway 8: Attachments

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

Pathway 9: In-shore Marine

Candidates must complete THREE Mandatory Units, plus ONE Optional Unit

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

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

Pathway 9 – Inshore Marine Optional Units continued

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

Pathway 10: Erecting and Dismantling

Candidates must complete FIVE Mandatory Units.

Mandatory Ur	nits	CITB references and credit values provided for information only			
Unit Ref.	Title	Title Level			CITB RITS Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	2	641	A/503/1170
T/508/6538	Conforming to productive working practices in the workplace	2	3	642	J/503/1169
L/650/9409	Slinging, signalling and the movement of suspended loads in the workplace	2	38	402v3	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

Additional Units for All Pathways

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

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

Centre Requirements

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

Staff

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

Assessors/Internal Quality Assurance

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

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

Support for Candidates

Materials produced by centres to support candidates should:

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

Links to National Standards / NOS mapping

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

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

Assessment

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

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

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

Evidence can include: - observation report by assessor

- assignments/projects/reports

professional discussion

witness testimony

- candidate product

worksheets

record of oral and written questioning

- Recognition of Prior Learning

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

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

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

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

Internal Quality Assurance

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

Adjustments to Assessment

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

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

Results Enquiries and Appeals

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

Certification

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

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

ProQual Level 2 NVQ Diploma in Plant Operations (Construction)

Claiming certificates

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

Unit certificates

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

Replacement certificates

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

Title:	Conforming to general health, safety and welfare in the workplace			
Unit Number:	M/508/6537			
Learning outcome			sment criteria Parner can:	
Comply with all workplace health, safety and welfare legislation requirements.		1.1	Comply with information from workplace inductions and any health, safety and welfare briefings attended relevant to the occupational area.	
		1.2	Use health and safety control equipment safely to carry out the activity in accordance with legislation and organisational requirements.	
		1.3	Comply with statutory requirements, safety notices and warning notices displayed within the workplace and/or on equipment.	
		1.4	State why and when health and safety control equipment, identified by the principles of protection, should be used relating to types, purpose and limitations of each type, the work situation, occupational use and the general work environment, in relation to: - collective protective measures - personal protective equipment (PPE) - respiratory protective equipment (RPE) - local exhaust ventilation (LEV).	
		1.5	State how the health and safety control equipment relevant to the work should be used in accordance with the given instructions.	
		1.6	State which types of health, safety and welfare legislation, notices and warning signs are relevant to the occupational area and associated equipment.	
		1.7	State why health, safety and welfare legislation, notices and warning signs are relevant to the occupational area.	
		1.8	State how to comply with control measures that have been identified by risk assessments and safe systems of work.	
2 Recognise hazards associated with the workplace that have not been previously controlled and report them in accordance with organisational procedures.	2.1	Report any hazards created by changing circumstances within the workplace in accordance with organisational procedures.		
	2.2	List typical hazards associated with the work environment and occupational area in relation to resources, substances, asbestos, equipment, obstructions, storage, services and work activities.		
		2.3	List the current Health and Safety Executive top ten safety risks.	

Title: Con	forming to gene	ral health, safety and welfare in the workplace.
Learning outcomes The learner will be able to		essment criteria Jearner 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 organ policies and proced	dures to	Interpret and comply with given instructions to maintain safe systems of work and quality working practices.
contribute to health, safety and welfare.	n, safety 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.

Titl	le:	Conforming to	ng to general health, safety and welfare in the workplace.		
	arning outcome			sment criteria arner can:	
4 Work responsibly to contribute to workplace health, safety and welfare whilst carrying out work in		4.1	Demonstrate behaviour which shows personal responsibility for general workplace health, safety and welfare.		
	the relevant o	-	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 Guida	nce	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	2	Shared unit				
Credit value		2				
Unit guided learni	ng hours	7				

Title: Conformir		produ	ctive working practices in the workplace
Unit Number :	T/508/6538		
Learning outcomes The learner will be able to:			sment criteria Parner can:
1 Communicate establish produpractices.		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.
2 Follow organisa procedures to p	olan the	2.1	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.	
		2.3	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 relevant	the	3.1	Complete relevant documentation according to the occupation as required by the organisation.
organisational p	rocedures.	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 was relationships what to productive was practices.	nen 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 outcome			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 Guida	nce	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 learni	ng hours	10				

Title:	Preparing and operating 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.	
compact cranes and 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.	
		 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 the lift and transfer loads. 	
2 Organise with c	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.	
		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 compact cranes.	
3 Know how to co relevant legislat guidance when transferring loa compact cranes	tion and official lifting and ds using	 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 opera		rating	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).	
			Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	
		4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.	
required qua of resources	5 Request and select the required quantity and quality of resources to prepare for and carry out lifting operations using compact cranes.	5.1	Request and select resources associated with compact cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.	
-		5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to: - consumables, lubricants and fuels - attachments and lifting accessories - hand tools, ancillary equipment and accessories.	
		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.	

Tit	Title: Preparing and operating compact cranes to lift and transfer loads in the workplace			
Learning outcomes The learner will be able to:			sment criteria 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_compact cranes.
6	to the work and surroundi area when preparing to ar		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	iirting and tr	ansferring 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 tin	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		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 operation		ing compact cranes to lift and transfer loads in the workplace		
Learning outcomes		ssessment criteria		
The learner will be able to:		he learner can:		
contract transfer a compact	with the given t information to lift, r and place loads using ct cranes to the d specification.	 Demonstrate the following work skills when preplifting, transferring and placing loads using comp checking, adjusting, communicating, operation manoeuvring, positioning, lifting, transferring down. 	act cranes: ng,	
		.2 Use and maintain hand tools, ancillary equipmen accessories.	t and/or	
		Prepare, set up and operate compact cranes to li and place a variety of loads to given working inst		
		.4 Shut down and secure compact cranes.		
		Describe how to apply safe and healthy work pra procedures, report problems and establish author to rectify, to: — identify the characteristics of the crane for the transferring operation — identify valid certification for maintenance, in and thorough examination — lift and transfer people — carry out function checks for lifting and transe — prepare, set up and reconfigure for various load locations — carry out pre-operational checks for obstruct stability, safety and security of the work and area — identify characteristics, type, weight and post for lifting and transferring — recognise and determine when specific skills knowledge are required and report accordines 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.	ne lifting and nespection ferring loads ds and tions, surrounding ition of loads	
		Describe the needs of other occupations and how effectively communicate within a team when pre and lifting and transferring loads.		
		Describe how to maintain the plant and machine tools, ancillary equipment and accessories used t transfer loads.	-	

Title:	Preparing and operating compact cranes to lift and transfer loads in the workplace					
Additional in	Additional information about this unit					
Assessment Guidance		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.				
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.				
		Workplace evidence of skills cannot be simulated.				
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.				
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction):				
		One of the following endorsements required:				
		Compact crane – static stabilisers				
		Compact crane – mobile industrial				
		Compact crane – luffing static				
		Compact crane – 360 degree pick and carry				
Sector subject areas		5.2 Building and Construction				
Availability for use		Shared unit				
Unit credit va	alue	30				
Unit guided learning hours		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 to	o:	Assessment criteria The learner can:
Interpret the given information relating to the preparation and use of		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.
pedestrian 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.
		 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	eration in	2.1 Organise the work according to given information or instructions.
which lifting operat pedestrian operat cranes are to be c	ed tower	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 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.		 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 ar 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	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.		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.		
				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).	
				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 qua of resources to prepare for and carry out lifting operations pedestrian operated tower cranes.	and quality epare for		Request and select resources associated with pedestrian operated tower cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.	
				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.	
				Describe how the resources should be used correctly and how problems associated with the resources are reported.	

Title: Preparing ar loads in the		nd operating pedestrian operated tower cranes to lift and transfer 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 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	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	Complete the work within the allocated time when preparing		7.1	Demonstrate completion of the work within the allocated time.
	to and lifting and t loads.	nd lifting and transferring	7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.

Title: Preparing as 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:		
8 Comply with the given contract information to lift, transfer and place loads using pedestrian operated tower cranes to the required specification.		 8.1 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.		
		8.3 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.		
		 8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: identify the characteristics of the crane for the lifting and transferring operation identify valid certification for maintenance, inspection and thorough examination lift and transfer people carry out function checks for lifting and transferring loads prepare, set up and reconfigure for various loads and locations carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area identify characteristics, type, weight and position of loads for lifting and transferring 		
		8.6 - recognise and determine when specific skills and knowledge are required and report accordingly - secure and balance loads for lifting - lift, remove and transfer loads - position, place and set down loads - confirm load stability, security and release - attach and remove guide ropes and aids - be on the public highway - shut down and secure the crane - use hand tools and ancillary equipment - use, handle and store lifting accessories.		
		8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.		
		8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.		

Title:	Preparing and operating pedestrian operated tower cranes to lift and transfer loads in the workplace				
Additional inform	ation	about this unit			
Assessment Guida	ince	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.			
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.			
		Workplace evidence of skills cannot be simulated.			
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.			
		ProQual Level 2 NVQ Diploma in Plant Operations (Construction)			
		One of the following endorsements required:			
		Pedestrian operated tower crane			
		Pedestrian operated tower crane inclined jib			
Sector subject are	as	5.2 Building and Construction			
Availability for use	9	Shared unit			
Unit credit value		30			
Unit guided learni hours	ng	100			

Title:	Preparing ar workplace	nd operating excavator cranes to lift and transfer loads in the
Unit Number:	R/508/6482	
Learning outcomes The learner will be able to	0:	Assessment criteria The learner can:
1 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.
		 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.	_	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 ting 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 ar workplace	nd opera	ting 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 excavator cranes.			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.
			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).
			Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
			Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
required quantity of resources to p	Request and select the required quantity and quality of resources to prepare for		Request and select resources associated with excavator cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.
and carry out lifti using excavator c			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.
			Describe how the resources should be used correctly and how problems associated with the resources are reported.

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

	Preparing and oper	rating 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 give contract information transfer and place lo excavator cranes to required specification	n to lift, pads using the	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	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.	
Sector subject areas		5.2 Building and Construction	
Availability for use		Shared unit	
Unit credit value		30	
Unit guided learning hours		100	

Title:	Preparing ar workplace	nd operating telescopic handlers to lift and transfer loads in the
Unit Number: F/508/6493		
Learning outcomes The learner will be able to	o:	Assessment criteria The learner can:
1 Interpret the given information relating to the preparation and use of		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 other sequence and ope	eration in	2.1 Organise the work according to given information or instructions.
which lifting opera telescopic handler 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 telescopic handler operations.
3 Know how to com relevant legislation guidance when lift transferring loads telescopic handler	n and official ting and 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 workplace	l operating telescopic handlers to lift and transfer loads in the		
Learning outcomes		Assessment criteria		
The learner will be able to):	The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out lifting operations using telescopic handlers.		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 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). 		
	4	4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
	•	4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select required quantity a of resources to pre	and quality epare for	5.1 Request and select resources associated with telescopic handlers in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
and carry out teles handler operations	•	 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 ar workplace		nd ope	rating telescopic handlers to lift and transfer loads in the		
	Learning outcomes		Assessment criteria		
The	e 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 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: Prepar	ing and operating telescopic handlers to lift and transfer loads in the lace
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 us telescopic handlers to the required specification.	
	8.2 Use and maintain hand tools, ancillary equipment and/or accessories.
	8.3 Prepare, set up and operate telescopic handlers to lift, transfer and place a variety of loads to given working instructions.
	8.4 Shut down and secure telescopic handlers.
	 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 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
	8.6 - recognise and determine when specific skills and knowledge are required and report accordingly - secure and balance loads for lifting - lift, remove and transfer loads - position, place and set down loads - confirm load stability, security and release - attach and remove guide ropes and aids - be on the public highway - shut down and secure the telescopic handler - use hand tools and ancillary equipment - use, handle and store lifting accessories.
	8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.
	8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.

Title:	Preparing and operating telescopic handlers to lift and transfer loads in the workplace				
Additional inform	nation 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:				
	Telescopic handler industrial telescope				
	Telescopic handler up to 9 metres				
	Telescopic handler all sizes				
	Telescopic handler all sizes excluding 360 degree				
	Telescopic handler all sizes including 360 degree				
Sector subject are	as 5.2 Building and Construction				
Availability for use	Shared unit				
Unit credit value	25				
Unit guided learni hours	ng 83				

Title:	Preparing ar	nd operating lorry loaders or knuckle booms to lift and transfer loads place
Unit Number: D/508/6484		
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 lorry loaders/knuckle booms to lift,		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.
transfer and place		1.2 Comply with information and/or instructions derived from risk assessments and method statements.
		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 lorry loaders/knuckle boom to lift and transfer loads.
2 Organise with other sequence and ope	eration in	2.1 Organise the work according to given information or instructions.
which lifting opera lorry loaders/knuc are to be carried o	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 comply with relevant legislation and official guidance when lifting and transferring loads using lorry loaders/knuckle booms.		 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.

Titl	Title: Preparin in the we		nd operating lorry loaders or knuckle booms to lift and transfer loads		
	Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
4	Maintain safe and working practices preparing for and clifting operations u	when carrying out using lorry		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.			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.	
				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).	
				Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	
		4.5		Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.	
5	Request and select required quantity a of resources to pre	and quality epare for		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 operations using lorry loaders/knuckle booms.			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.	
				Describe how the resources should be used correctly and how problems associated with the resources are reported.	

Title: Preparing ar		nd operating lorry loaders or knuckle booms to lift and transfer loads place			
	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 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 transferring loads.	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	en preparing	7.1	Demonstrate completion of the work within the allocated time.	
	to and lifting and t loads.	ransterring	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 ar		nd operating lorry loaders or knuckle booms to lift and transfer loads place		
Learning outcomes The learner will be able to:		ssessment criteria e learner can:		
8 Comply with the g contract informati transfer and place lorry loaders/knuc to the required sp	on to lift, loads using kle booms	 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	2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.3	Prepare, set up and operate lorry loaders/knuckle booms to lift, transfer and place a variety of loads to given working instructions.		
	8.4	4 Shut down and secure lorry loaders/knuckle booms.		
	8.5	 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 		
	8.0	 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	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.		

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

Title:		nd operating trailer-mounted concrete pumps to receive, pump and aterials in the workplace
Unit Number: H/508/6504		
Learning outcomes The learner will be able t	o:	Assessment criteria The learner can:
1 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	perations using	Describe how to communicate ideas between team members.
carried out.		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 legislation guidance when ca pumping and discluderations using control pumps.	n and official rrying out harging	 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			nd operating trailer-mounted concrete pumps to receive, pump and 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 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	Request and select the required quantity and quality of resources to prepare for	and quality epare for	5.1 Request and select resources associated with concrete pumps in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
	and carry out pumping operations using concrete pumps.		 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. 		

		d operating trailer-mounted concrete pumps to receive, pump and aterials in the workplace			
	Learning outcomes		Assessment criteria		
The learner will be able to:		The le	arner can:		
5 Continued		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.		
			5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, quantity, pressure, length and area associated with the method/procedures to carry out concrete pumping operations.	
6	Minimise the risk of damage to the work and surrounding area when preparing to and pumping materials using concrete pumps.		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 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.	

		nd operating trailer-mounted concrete pumps to receive, pump and aterials in the workplace		
Learning outcomes The learner will be able to:		ssessment criteria ne learner can:		
8 Comply with the gi contract information receive, pump and materials using cor pumps to the requ	on to 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.	 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.	 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, 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	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	ation about this	unit	
Assessment Guida	ince	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment. Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy. Workplace evidence of skills cannot be simulated.	
Sector subject are	as	5.2 Building and Construction	
Availability for use Unit Credit value Unit guided learning hours		Shared unit	
		18	
		60	

Title:	Preparing and o workplace	perating boom-type mobile elevating work platforms (MEWP) in the
Unit Number: F/508/6509		
Learning outcome		Assessment criteria The learner can:
Interpret the given information relating to the preparation and using boom-		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information.
type MEWPs t to carry out th		1.2 Comply with information and/or instructions derived from risk assessments and method statements.
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		 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.
2 Organise with sequence and	operation in	2.1 Organise the work according to given information or instructions.
which accessir using boom-ty to be carried c	pe MEWPs are	2.2 Describe how to communicate ideas between team members.
		2.3 Organise and communicate with team members and other associated occupations.
		2.4 Describe how to organise resources prior to and during accessing operations.
3 Know how to orelevant legislar guidance when accessing open boom-type MI	ation and official n carrying out rations using	 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.

Titl	e:	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	working praction preparing for a accessing oper	Maintain safe and healthy working practices when preparing for and carrying out accessing 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 accessing operations.	
	boom-type MEWPs.		4.2	Demonstrate compliance with given information and relevant legislation when carrying out accessing operations using boom-type MEWPs in relation to two or more of the following: - safe use and storage of plant or machinery - safe use and storage of tools and equipment - specific risks to health.	
			4.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to accessing operations, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: - collective protective measures - personal protective equipment (PPE) - respiratory protective equipment (RPE) - local exhaust ventilation (LEV).	
			4.4	Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	
			4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries, other task-related activities and rescue plans.	
5	Request and select the required quantity and quality of resources to prepare for		5.1	Request and select resources associated with boom-type MEWPs in relation to consumables, materials, tools, ancillary equipment and/or accessories.	
	and carry out accessing operations using boom-type MEWPs.	5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to: - consumables, lubricants and fuels - attachments and accessing aids - hand tools, ancillary equipment and accessories.		
			5.3	Describe how the resources should be used correctly, how problems associated with the resources are reported.	

Tit	le:	Preparing and operating boom-type mobile elevating work platforms (MEWP) in the workplace			
Learning outcomes			Assessment criteria		
The	e learner will be ab	le to:	The le	earner 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 accessing work areas.		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 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.	

Titl	le:	Preparing and o	perating	boom-type mobile elevating work platforms (MEWP) in the
Learning outcomes The learner will be able to:		Assessr The lear	ment criteria ner can:	
8 Comply with the given contract information to access areas to carry out work using boom-type MEWPs to the required specification.			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	ncation.		Use and maintain hand tools, ancillary equipment and/or accessories.
			1	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.
		ı	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	
			8.6	 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.
		8.7		Describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out accessing operations.
				Describe how to maintain the plant and machinery, hand cools, 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	5.2 Building and Construction
Availability for use	Shared unit
Credit value	14
Unit guided learnin	ng 47

Title:	Slinging, sign	nalling and the movement of suspended loads in the workplace	
Unit Number: L/650/9409			
Learning outcomes);	Assessment criteria	
The learner will be able to 1 Interpret the information relating to the work resources.	mation	 Interpret the information relating to the lifting operation, lifting accessories, equipment and loads from the following sources: Drawings Specifications Schedules Risk assessments Method statements Lift plans Verbal briefings Manufacturers' information. 1.2 Check the information for the lifting operation is appropriate with regard to the available resources, lifting accessories, load data and calculations in relation to: Weight Quantity Length. 1.3 Communicate with the relevant people when problems are identified with the information provided. 1.4 Explain why organisational procedures have been developed and how they are implemented. 1.5 Describe the types of information, their source and how they are interpreted in relation to: Drawings Specifications Schedules Method statements Risk assessments Lift plans Verbal briefings 	

Title:	Slinging, signalling and the movement of suspended loads in the workplace	
Learning outcomes The learner will be able to:		earner can:
1 continued		Describe how to report and rectify inappropriate information, and how this is implemented in relation to: - Drawings - Specifications - Schedules - Method statements - Risk assessments - Lift plans - Verbal briefings - Manufacturers' information.
	1.7	Describe the organisational procedures for identifying and rectifying problems with information within own authority and why it is important that they are followed.
	1.8	Explain why it is important that problems with the information, resources or methods of work are relayed immediately to relevant people dependent on whether they are: — Within own authority to rectify — Require organisational reporting procedures.
2 Organise and work others, to establish the task is to be cor	how	Organise and work with others, to check and establish how the task is to be conducted.
and communicated members.		Communicate using discussions, sketches, electronic data, briefings, signalling and radio communications with the following lifting team members: - Lift planner or appointed person - Lifting operations supervisor - Other signallers - Lifting equipment operators - Ancillary workers - Other occupations associated with the lifting operation.

Title:	Slinging, sign	nalling and the movement of suspended loads in the workplace	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
2 continued		 Describe how to communicate using discussions, sketches, electronic data, briefings, signalling and radio communications with the following lifting team members: Lift planner or appointed person Lifting operation supervisor Other signallers Lifting equipment operators Ancillary workers Other occupations associated with the lifting operation. 	
		 Describe how to organise the materials, components and equipment relating to types, quantity, quality, size and the sustainability of standard and specialist: Lifting accessories Signalling and communication equipment Hand tools and ancillary equipment. 	
		2.5 Explain the skills required to carry out the work in relation to other occupations.	
3 Comply with organ procedures and of guidance.		 3.1 Comply with the information provided and organisational procedures to avoid risk in relation to the following: Methods of work Safe use of health, safety and environmental control measures Safe use and storage of tools and equipment Safe use, storage and handling of lifting accessories Safe use of any access equipment Specific risks to safety, health and welfare Specific risks to the work area and local environment. 3.2 List the legislation, official guidance and approved code of practice related to own occupation and relevant 	
		organisational procedures and describe how they are applied in relation to the operative's responsibilities regarding potential accidents, health hazards and the environment in the workplace.	

Title:	Slinging, sign	nalling and the movement of suspended loads in the workplace
		Assessment criteria The learner can:
3 continued		 3.3 Explain how emergencies should be responded to and who should respond in relation to: Fires Spillages Injuries Emergencies relating to occupational activities. 3.4 Describe the organisational security procedures for relevant tools, equipment and personal belongings in relation to: Site Workplace Company Operative.
		3.5 Explain the accident reporting procedures and who is responsible for making reports.
		3.6 Explain why, when and how health and safety control equipment should be used in relation to: - Collective protection measures - Personal protective equipment (PPE) - Respiratory protective equipment (RPE) - Local exhaust ventilation (LEV).

	Describe how to comply with safe and environmentally responsible work practices to meet the requirements of current organisational procedures and official guidance when dealing with potential accidents, health hazards and the environment in relation to: - Below ground level - In confined or restricted spaces - At height - Tools and equipment
3.7	responsible work practices to meet the requirements of current organisational procedures and official guidance when dealing with potential accidents, health hazards and the environment in relation to: - Below ground level - In confined or restricted spaces - At height
	 Materials and substances Movement and storage of materials by manual handling or mechanical lifting.
4.1 4.2	Select required resources for the lifting operations including: - Lifting accessories - Lifting aids - Hand tools and ancillary equipment - Signalling and communication equipment. Identify the characteristics, type, quantity, quality, uses, sustainability, limitations and defects associated with the materials, components and equipment and explain why they are important and how defects should be rectified in relation to: - Lifting accessories - Signalling and communication equipment - Hand tools and ancillary equipment.
4.4	Explain why the organisational procedures have been developed for the selection of resources and how they are used. Describe how the resources should be used and how any problems associated with deviation from given information, incorrect use of resources or methods of work are reported in relation to: — Own authority to rectify
	4.2

Title:	Slinging, sign	nalling and the movement of suspended loads in the workplace	
Learning outcomes		Assessment criteria	
The learner will be able to):	The learner can:	
4 continued		4.5 Explain how to report unsuitable resources such as:	
		Materials, components and equipment relating to types, quantity, quality, size and the sustainability of standard and specialist:	
		Lifting accessoriesSignalling and communication equipment	
		 Hand tools and ancillary equipment. 	
5 Minimise the risk of complying with organisa procedures.		5.1 Comply with organisational procedures to minimise risk and prevent damage in relation to the following:	
		 Protecting the loads, work and surrounding area from damage 	
		 Maintaining a clear and tidy work space 	
		 Disposing of waste in accordance with organisational procedures, regulations and official guidance. 	
		5.2 Explain how to protect the load and work area from damage from the following:	
		 Accessories for lifting 	
		 General workplace activities 	
		 Nearby structures 	
		Other occupations and activitiesAdverse weather conditions.	
		5.3 Describe why and how the disposal of waste must be carried out in accordance with:	
		 Environmental concerns and responsibilities 	
		Organisational procedures	
		Manufacturers informationStatutory regulations	
		Official guidance.	
		5.4 Explain why it is important to maintain a safe, clear and tidy work area.	

Title:	Slinging, signal	ling and the movement of suspended loads in the workplace
Learning outcomes The learner will be able to:		Assessment criteria The learner can:
6 Carry out the work the specification e and safely.	fficiently	efficiently and safely to the required specification in relation to the following; Demonstrate work skills to: measure, gauge, judge, calculate, fit, fix, test, balance, interpret, assess, explain, prepare, indicate, inform, instruct, sign, position, adjust, configure, move, secure, signal and relay Select, assess, maintain and use lifting accessories, lifting aids, signalling and communication equipment Prepare lifting accessories prior to slinging Sling and signal for the lifting and movement of suspended loads to given instructions for the following: Balanced loads Unbalanced loads Containerised loads Containerised loads Where the operator does not have clear sight of the load Guide, move, control and place suspended loads to agreed destinations to given working instructions using signals and verbal instructions to lifting equipment operators and other signallers where relevant Detach lifting accessories from loads and leave in a safe state Reconfigure lifting accessories after detachment following the placing of a load so that any component part does not foul structures or objects Carry out post lifting checks and storage requirements of lifting accessories.

Title:	Slinging, signalling and the movement of suspended loads in the workplace	
Learning outcomes	Assessment criteria	
The learner will be able to	The learner can:	

Title:	Slinging, signalling	and the movement of suspended loads in the workplace	
Learning outcomes The learner will be able to		Assessment criteria The learner can:	
6 continued	6.5	Explain how operative level basic care, maintenance and storage of lifting accessories, tools, ancillary equipment, aids, signalling and communication equipment is carried out in relation to responsibilities, authorisation and limitations.	
	6.6	Describe how to maintain personal safety for self and others in relation to:	
		 Keeping clear of moving equipment and loads Below slung loads Crush zones Edges Working at height Poor lighting Extreme environmental conditions including heat and cold Poor ground conditions Confined and restricted spaces. 	
7 Complete the work the allocated time		Complete the work in accordance with the programme of work activities and provide post-operation feedback to team members in relation to the following: - Completion of own work that conforms to safe working practices and required timescales to meet the needs of other occupations, customers and employers - Relay problems encountered during the lifting operation	
	7.2	back to relevant team members. Establish what the programme, customer requirements,	
		progress chart, timetable or estimated time is for the work to be carried out and explain why timescales should be kept whilst maintaining safe working practices.	
	7.3	Explain organisational procedures for dealing with unauthorised requests that fall outside of the lift plan or given authorised instructions, assisting with other non-related activities which will affect the work programme.	

Title:	Slinging, signalling and the movement of suspended 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.	
Sector subject areas		5.2 Building and Construction	
Availability for use		Shared unit	
Unit credit value		10	
Unit guided learning hours		170	

Title: Operating plant or machinery for non-operational act		nachinery for non-operational activities in the workplace	
Unit Number: F/508/6526			
Learning outcomes The learner will be able to:			ssment criteria earner 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 ac	tivities	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, user manuals, manufacturers' information and current regulations governing the operation of plant and machinery
2 Organise with sequence in w	hich the work	2.1	Organise the work in accordance with given information or instructions.
operating plar machinery for	is to be carried out when operating plant or machinery for non-operational activities.		Communicate with team members and other associated occupations about the plant or machinery operation and work to be carried out.
			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 machinery for non- operational activities.		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 plan	or machinery for non-operational activity	ies in the workplace
Learning outcomes The learner will be able to:		ssessment criteria ne learner can:	
4 Maintain safe and healthy working practices when operating plant or machinery for nonoperational activities.		Use health and safety control equi equipment (if applicable) safely to in accordance with current legislat organisational requirements when machinery for non-operational act	carry out the activity ion and operating plant or
		2 Comply with information relating the health when operating plant or more operational activities.	•
		2 Explain why and when health and sequipment, identified by the principle should be used, relating to operating for non-operational activities and the and limitations of each type, the way general work environment, in relating the collective protective measures of the personal protective equipments of the personal protective equipments of the personal exhaust ventilation (LEV)	ples of protection, ng plant or machinery the types, purpose ork situation and tion to: t (PPE) ent (RPE)
		4 Describe how the relevant health a equipment should be used in accorinstructions.	•
		Describe how emergencies should accordance with organisational au personal skills when involved with injuries and other task-related haz	thorisation and fires, spillages,

Tit	le: Operating p	lant or n	nachinery for non-operational activities in the workplace		
Learning outcomes		Asse	Assessment criteria		
The learner will be able to:		The le	earner can:		
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.		
			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	6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.		
	operating plant or machinery for non-	6.2	Minimise damage and maintain a clean work space.		
	operational activities.	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.		
			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.		
	operating plant or machinery for non-operational activities.		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:			arner can:
8 Comply with the given contract information to operate plant or machinery for non-operational activities to the required specification.		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.
		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.
			Shut down and secure plant or machinery to given working instructions.
			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	nt or machinery for non-operational activities in the workplace		
Learning outcomes		Assessment criteria		
The learner will be	able to:	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		
		8.8 Describe the needs of other occupations and how to 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	perating plant or machinery for non-operational activities in the workplace				
Additional information 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.				
		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 an		nd operating road/rail adapted plant in the workplace
Unit Number: J/508/6527		
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 road/rail plant and the work to		1.1 Interpret and extract relevant information from drawings, specifications, schedules, work package plans, method statements, risk assessments and manufacturers' information.
be carried out.		1.2 Comply with information and/or instructions derived from risk assessments and method statements.
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		 Describe different types of information, their source and how they are interpreted in relation to: drawings, specifications, schedules, method statements, lift plans, work package plans, risk assessments, certification and manufacturers' information for the operation of road/rail plant.
2 Organise with other sequence and ope	ration in	2.1 Organise the work according to given information or instructions.
which road/rail pla operations are to b out.		2.2 Describe how to communicate ideas between team members.
		2.3 Organise and communicate with team members and other associated occupations.
		2.4 Describe how to organise resources prior to and during road/rail plant operations.
3 Know how to comply with relevant legislation and official guidance when preparing to and carrying out road/rail plant operations.		 3.1 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.

Title:	Preparing and operating road/rail adapted plant in the workplace			
Learning outcomes		Assessment criteria		
The learner will be able to:		The learner can:		
4 Maintain safe and healthy working practices when preparing for and carrying out road/rail plant operations.		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during road/rail plant operations.		
		 4.2 Demonstrate compliance with given information and relevant legislation when carrying out road/rail plant operations in relation to two or more of the following: safe use and storage of plant or machinery safe use of tools and equipment specific risks to health. 		
		 4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to road/rail plant operations, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: collective protective measures personal protective equipment (PPE) respiratory protective equipment (RPE) local exhaust ventilation (LEV). 		
		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 pro	and quality epare for	5.1 Request and select resources associated with the work in relation to consumables, materials, tools, ancillary equipment, attachments and/or accessories.		
and carry out road operations.	iyraii piant	 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to: consumables, fittings, fuels, oils and lubricants hand tools, ancillary equipment and accessories. 		
		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.		

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

Title:	Preparing and op	perating road/rail adapted plant in the workplace
Learning outcomes The learner will be able to:		essment criteria
8 Comply with the given contract information to prepare for and operate road/rail plant to the required specification.	iven 8.1 on to perate	
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:	Preparing and operating road/rail adapted plant in the workplace			
Additional information about this unit				
Assessment Guida	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.			
	Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.			
	Workplace evidence of skills cannot be simulated.			
	This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.			
	ProQual Level 2 NVQ Diploma in Plant Operations (Construction):			
	One of the following endorsements required:			
	Road rail – forward tipping dumper Road rail – MEWP scissor Road rail – MEWP boom Road rail – crawler tractor/dozer Road rail – knuckle boom crane Road rail – dump truck – articulated chassis Road rail – dump truck – rigid chassis Road rail – excavator 360 degree wheeled Road rail – excavator 360 degree tracked Road rail – excavator crane Road rail – crane Road rail – rough terrain forklift truck Road rail – agricultural tractor			
Sector subject are	as 5.2 Building and Construction			
Availability for use	Shared unit			
Unit credit value	8			
Unit guided learning hours	ng 26			

Title: Preparing and		opera	ting plant or machinery attachments in the workplace
Unit Number: L/508/6528			
Learning outcome The learner will be a			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.
plant or mach attachments.	inery	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 plant and machinery attachments.
2 Organise with sequence and	operation of	2.1	Organise the work according to given information or instructions.
· ·	plant or machinery attachment use.	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 attachment use.
3 Know how to comply with relevant legislation and official guidance when preparing and using plant or machinery attachments.		3.1	Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting applicable to attachment use.
		3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3	Explain what the accident reporting procedures are and who is responsible for making reports.

Title:	Preparing and operating plant or machinery attachments in the workplace				
Learning outcomes			Assessment criteria		
The learner will be al	ble 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).			
			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 particular task-related activities.		
required quan quality of reso	5 Request and select the required quantity and quality of resources to prepare for and use plant or machinery attachments.	5.1	Request and select resources associated with own 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: - 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			
	arning outcome			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/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		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	the allocated time when		7.1	Demonstrate completion of the work within the allocated time.	
	preparing to a or machinery a	٠.	7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.	

Title:	Preparing and operating plant or machinery attachments in the workplace			
Learning outcomes		Assessment criteria		
The learner will be a	ble to:	The learner can:		
8 Comply with the given contract information to prepare for and operate plant or machinery attachments to the required		 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		

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

Title:	Moving, handli	ing 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 when handling and/resources.	n 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, hand	Moving, handling and storing resources in the workplace		
Learning outcomes The learner will be able to:	Assessment criteria The learner can:		
3 continued	3.3 Protect the environment in accordance with safe working practices as appropriate to the work.		
	 3.4 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to moving, handling and/or storing resources, and the types, purpose and limitations of each type, the work situation, occupational use and the general work environment, in relation to: collective protective measures personal protective equipment (PPE) respiratory protective equipment (RPE) local exhaust ventilation (LEV). 		
	3.5 Describe how the health and safety control equipment relevant to the work should be used in accordance with the given instructions.		
	3.6 State how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards.		
4 Select the required quantity and quality of resources for the methods of work to	4.1 Select the relevant resources to be moved, handled and/or stored, associated with own work.		
move, handle and/or store occupational resources.	 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		nd storing resources in the workplace
Learning outcomes The learner will be able to:		essment criteria learner can:
5 Prevent the risk of damage to occupational resources and surrounding		Protect occupational resources and their surrounding area from damage in accordance with safe working practices and organisational procedures.
environment when mo handling and/or storing resources.	<u> </u>	Dispose of waste and packaging in accordance with legislation.
	5.5	Explain why the disposal of waste should be carried safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
6 Complete the work wi	en	Demonstrate completion of the work within the allocated time.
moving, handling and storing resources.	6.2	State the purpose of the work programme and explain why deadlines should be kept in relation to: - progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.
7 Comply with the giver occupational resource information to move, handle and/or store		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.
resources to the required guidance.	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	ation about this	unit
Assessment Guida	ince	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		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 to	o:	Assessment criteria The learner can:
1 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.	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.
		 Describe different types of information, their source and how they are interpreted in relation to: drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of crawler cranes to lift and transfer loads.
2 Organise with other sequence and ope	ration in	2.1 Organise the work according to given information or instructions.
which lifting opera crawler cranes are carried out.	_	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		Assessment criteria		
The learner will be able to	:	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.		
5 Request and select required quantity a of resources to pre	and quality pare 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 using crawler crane		 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 ar loads in the		nd operating crawler cranes above 10 tonnes to lift and transfer workplace			
	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, bearing, pressure, quantity, length and area associated with the method/procedures to carry out lifting operations with crawler cranes.	
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and		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.	

	reparing and oper pads in the workpl	rating crawler cranes above 10 tonnes to lift and transfer lace
Learning outcomes The learner will be able to:		sment criteria arner can:
8 Comply with the give contract information transfer and place load crawler cranes to the specification.	to lift, ads using	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.
	8.3	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	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 crawler cranes above 10 tonnes to lift and transfer loads in the workplace	
Additional inform	nation about this	unit
Assessment Guidance		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment. Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy. Workplace evidence of skills cannot be simulated.
Sector subject areas		5.2 Building and Construction
Availability for use		Shared unit
Unit credit value		80
Unit guided learning hours		265

Title:	Preparing ar	nd operating tower cranes to lift and transfer loads in the workplace
Unit Number: K/508/6567		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:
Interpret the given information relating to the preparation and use of tower		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.
cranes to lift, transplace loads.	ster and	1.2 Comply with information and/or instructions derived from risk assessments and method statements.
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		 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.
		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.		 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		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.	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.
5 Request and select required quantity of resources to pre	and quality epare for	5.1 Request and select resources associated with tower cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.
and carry out lifting operations using tower cranes.		5.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to: - consumables, lubricants and fuels - attachments and lifting accessories - hand tools, ancillary equipment and accessories.
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.

Tit	le:	Preparing ar	nd opei	rating tower cranes to lift and transfer loads in the workplace
	Learning outcomes The learner will be able to:			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, 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 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 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 a		operating tower cranes to lift and transfer loads in the workplace
Learning outcomes		ssessment criteria
The learner will be able to	o: TI	he 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.
		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	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: Tower crane trolley jib Tower crane luffing jib	
Sector subject area	as	5.2 Building and Construction	
Availability for use)	Shared unit	
Unit credit value		80	
Unit guided learning hours		267	

Title:	Preparing ar workplace	nd operating mobile cranes to lift and transfer loads in the
Unit Number: M/508/6568		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:
Interpret the given information relating to the preparation and use of mobile		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.
cranes to lift, tran place loads.	ster and	1.2 Comply with information and/or instructions derived from risk assessments and method statements.
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		 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 oth sequence and ope	eration in	2.1 Organise the work according to given information or instructions.
which lifting opera mobile cranes are carried out.		Describe how to communicate ideas between team members.
		Organise and communicate with team members and other associated occupations.
		2.4 Describe how to organise resources prior to and during lifting operations with mobile cranes.
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using mobile cranes.		3.1 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.

Title: Preparing workplace		nd operating mobile cranes to lift and transfer loads in the	
Learning outcomes The learner will be able to:		Assessment criteria	
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 epare for	5.1 Request and select resources associated with mobile cranes in relation to consumables, materials, tools, ancillary equipment and/or accessories.	
and carry out lifting operations using mobile cranes.		 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 operati		ing mo	bile cranes to lift and transfer loads in the workplace
	Learning outcomes The learner will be able to:			sment criteria 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_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	time when preparing	7.1	Demonstrate completion of the work within the allocated time.
	to and lifting and transferring loads.		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.

Title: Preparing and operating		ng mobile cranes to lift and transfer loads in the workplace		
Learning outcomes		Assessment criteria		
The learner will be able to:		The learner can:		
8 Comply with the given contract information to lift, transfer and place loads using mobile cranes to the required specification.		 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 8.6 - recognise and determine when specific skills and knowledge are required and report accordingly - secure and balance loads for lifting - lift, remove and transfer loads - position, place and set down loads - confirm load stability, security and release - attach and remove guide ropes and aids - be on the public highway - shut down and secure the 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 info	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	ie	95					
Unit guided learning hours		317					

Title:	Preparing an	nd operating crawler-tractor side booms to lift and transfer loads in ce
Unit Number:	T/508/6569	
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 side		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.
booms to lift, tran place loads.	ster and	1.2 Comply with information and/or instructions derived from risk assessments and method statements.
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		 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 side booms 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 opera side booms are to out.	_	Describe how to communicate ideas between team members.
		Organise and communicate with team members and other associated occupations.
		2.4 Describe how to organise resources prior to and during lifting operations with side booms.
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using side booms.		3.1 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.

Title:	Preparing and operating co	Preparing and operating crawler-tractor side booms to lift and transfer loads in the workplace	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
4 Maintain safe and healthy working practices when preparing for and carrying out lifting operations using side		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during lifting operations.	
boc	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.	
req of r	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.	
		 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	Preparing and operat workplace		ing cra	wler-tractor side booms to lift and transfer loads in the
Lea	Learning outcomes		Asse	ssment criteria
The	e learner wii	ll 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 side booms.
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	litting an	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	e the work within the I time when preparing	7.1	Demonstrate completion of the work within the allocated time.
	to and lifting and transferring loads.		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.

Title:		Preparing and operating crawler-tractor side booms to lift and transfer loads in the workplace	
Learning outcomes The learner will be able to:			sment criteria arner 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.
		8.2	Use and maintain hand tools, ancillary equipment and/or accessories.
		8.3	Prepare, set up and operate crawler-tractor side booms to lift, transfer and place a variety of loads and/or pipelines to given working instructions.
		8.4	Shut down and secure side booms.
		8.5	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.
	8.7	8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing for and lifting and transferring loads.
		8.8	Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to lift and transfer loads.

Title:	Preparing and operating crawler-tractor side booms to lift and transfer loads in the workplace		
Additional inform	ation about this	unit	
Assessment Guida	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 are	as	5.2 Building and Construction	
Availability for use		Shared unit	
Unit credit value		50	
Unit guided learning hours		160	

Title:	Preparing an	nd operating draglines to extract ground and/or loose materials in ce
Unit Number: K/508/6570		
Learning outcomes The learner will be able to	o:	Assessment criteria The learner can:
1 Interpret the given information relating to the preparation and use of		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 o using draglines 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 draglines.
3 Know how to comply with relevant legislation and official guidance when carrying out extracting operations using draglines.		 3.1 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2 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 the workplace		d operating draglines to extract ground and/or loose materials in
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.
draglines.		 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 required quantity a of resources to pre	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 extra operations using dr	~	 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			sment criteria
The	e learner will be able to) <i>:</i>	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, 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	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 draglines to extract ground and/or loose mat the workplace	
Learning outcomes		sessment criteria
The learner will be able to	o: The	e learner can:
8 Comply with the g contract informati extract materials udraglines to the respecification.	on to using	extracting loose materials, face, ground or commodities using draglines: - checking, adjusting, communicating, manoeuvring, positioning, extracting, forming, removing and loading.
	8.2	Use and maintain hand tools, ancillary equipment and/or accessories.
	8.3	Prepare, position, set up and operate draglines to given working instructions - extract ground, face, loose materials or commodities - load and/or stockpile loose materials or commodities.
	8.4	Shut down and secure draglines.
	8.5	 procedures, report problems and establish authority needed to rectify, to: identify the characteristics of the dragline used for the extraction operation carry out function checks for the extraction operation prepare, set up and adjust for operational requirements identify the area to be extracted carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area identify geological, environmental and material changes and report
	8.6	 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	nnce	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment. Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy. Workplace evidence of skills cannot be simulated.
Sector subject are	as	5.2 Building and Construction
Availability for use		Shared unit
Unit Credit value		60
Unit guided learning hours		200

Title:		nd operating 180 degree excavators to extract and excavate ground aterials in the workplace
Unit Number: M/508/6571		
Learning outcomes The learner will be able t	o:	Assessment criteria The learner 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 exc 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 180 degree excavators for extraction and excavation work.
2 Organise with oth sequence and ope	eration in	2.1 Organise the work according to given information or instructions.
which extracting a excavating operat 180 degree excava	rations using 2.2 avators are to	Describe how to communicate ideas between team members.
be carried out.		Organise and communicate with team members and other associated occupations.
		2.4 Describe how to organise resources prior to and during extracting and excavating operations using 180 degree excavators.
3 Know how to com- relevant legislatio guidance when ca- extracting and exc operations using 2 excavators.	n and official rrying out cavating	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 180 degree excavators to extract and excavate ground and loose materials in the workplace		
Learning outcomes		Assessment criteria	
The learner will be able to:	Th	ne learner can:	
4 Maintain safe and healthy working practices when preparing for and carrying out extracting and excavating		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 180 degree excavators.	4.	 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. 	
		 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.	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 Request and select required quantity are of resources to prepared corresponding to the contract of the corresponding to the correspon	nd quality pare for	1 Request and select resources associated with 180 degree excavators in relation to consumables, materials, attachments, tools, ancillary equipment and/or accessories.	
and carry out extracting and excavating operations using 180 degree excavators.	ons using 5	 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to: consumables, lubricants and fuels attachments and extraction/excavation 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 and operating 180 degree excavators to extract and excavate ground and loose materials in the workplace			
	Learning outcomes			Assessment criteria	
The	e learner will be able to) <i>:</i>	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 exc materials.	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 pre	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 and loose materials in the workplace	
Learning outcomes The learner will be able to:		ssessment 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.
	8.	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.	 procedures, report problems and establish authority needed to rectify, to: identify the characteristics of the 180 degree excavator used for the extraction and excavation operation carry out function checks for the extraction and excavation operation prepare, set up and adjust for operational requirements identify the area to be extracted/excavated carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area identify geological, environmental and material changes and report check to avoid damage to structures and utilities service apparatus
	8.	 recognise and determine when specific skills and 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	carner 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	tion about this unit			
Assessment Guida		d in a work environment and in accordance with the lidated Assessment Strategy for Construction and the		
	sufficient depth of releva	ist have verifiable, current industry experience and a nt occupational expertise and knowledge, and must essment methods as defined in the Consolidated		
	Workplace evidence of sl	cills cannot be simulated.		
	This unit must be assesse relevant NVQ Structure.	d against the endorsements detailed within the		
	ProQual Level 2 NVQ Dip	oma in Plant Operations (Construction:		
	One of the following end	orsements is required:		
	Excavator 180 degree wh Excavator 180 degree wh			
Sector subject are	5.2 Building and Construc	tion		
Availability for use Shared unit				
Unit Credit value	80			
Unit guided learning 266 hours				

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 t	o:	Assessment criteria The learner 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.
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		 1.4 Describe different types of information, their source and how they are interpreted in relation to: drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of tracked loading shovels for extraction work.
2 Organise with oth sequence and ope	eration in	2.1 Organise the work according to given information or instructions.
which extracting of using tracked load are to be carried of	ing shovels	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 tracked loading shovels.
3 Know how to comply with relevant legislation and official guidance when carrying out extracting operations using tracked loading shovels.		 3.1 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.

Title:	Preparing and operating tracked loading shovels to extract ground and loose materials in the workplace	
Learning outcomes		Assessment criteria
The learner will be able to	: 1	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.
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	4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
5 Request and select required quantity a of resources to pre	nd quality pare for	5.1 Request and select resources associated with tracked loading shovels in relation to consumables, materials, attachments, tools, ancillary equipment and/or accessories.
and carry out extra operations using tr loading shovels.	_	 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 loose materials in the workplace			
	Learning outcomes			Assessment criteria	
The	e 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 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.	

		and operating tracked loading shovels to extract ground and loose 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 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	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	4 Shut down and secure tracked loading shovels.		
	8.9	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	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	ation about this	unit
Assessment Guida	ince	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment. Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy. Workplace evidence of skills cannot be simulated.
Sector subject are	as	5.2 Building and Construction
Availability for use		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 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 and manufacturers' information.
motorised scraper extraction and dist 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 motorised scrapers for extraction and distribution work.
2 Organise with oth 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.		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.

Title:	Preparing and operating motorised scrapers to extract, transport and dismaterials in the workplace	
Learning outcomes The learner will be able to:		ssessment criteria he 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.	otorised 4.	 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.	23 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.
		.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 motorised scrapers in relation to consumables, materials, attachments, tools, ancillary equipment and/or accessories.
and carry out extraction an distribution operations usir motorised scrapers.	ions using 5.	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to: - consumables, lubricants and fuels - attachments and extraction/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.

_		nd operating motorised scrapers to extract, transport and distribute the workplace			
	Learning outcomes The learner will be able to:			Assessment criteria The learner can:	
5			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	6 Minimise the risk of damage to the work and surrounding area when preparing to and extracting and distributing materials.		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
			6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	7 Complete the work within the allocated time when preparing to and extracting 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 ope	erating motorised scrapers to extract, transport and distribute orkplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
8 Comply with the given contract information to extract and distribute materials using motorised scrapers to the required specification.		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		
	8.6	 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	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.
Sector subject are	as	5.2 Building and Construction
Availability for use Unit Credit value Unit guided learning hours		Shared unit
		80
		267

Title:	Preparing an	nd operating trenchers to extract ground and/or loose materials in ce
Unit Number: F/508/6574		
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 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.
		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 extraction work.
2 Organise with oth sequence and ope	eration in	2.1 Organise the work according to given information or instructions.
which extracting o using trenchers ar 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.		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 as the workpla		nd operating trenchers to extract ground and/or loose materials in ce	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:	
4 Maintain safe and working practices preparing for and extracting operati	when carrying out	4.1 Use health and safety control equipment safely and control with the methods of work to carry out the activity in accordance with legislation and organisational require during extracting operations.	
trenchers.		 4.2 Demonstrate compliance with given information and r legislation when carrying out extracting operations us 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 equip identified by the principles of protection, should be us relating to trencher use, and the types, purpose and limitations of each type, the work situation and general environment, in relation to: collective protective measures personal protective equipment (PPE) respiratory protective equipment (RPE) local exhaust ventilation (LEV). 	sed,
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the give working instructions.	en
	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 contact task-related activities.	sonal
5 Request and select required quantity of resources to pr	and quality epare for	5.1 Request and select resources associated with trencher relation to consumables, materials, attachments, tool ancillary equipment and/or accessories.	
and carry out extr operations using t	_	 Describe the characteristics, quality, uses, sustainabili limitations and defects associated with the resources, 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 a how problems associated with the resources are report	

Title: Preparing at the workpla		•	rating trenchers to extract ground and/or loose materials in	
	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 trenchers.
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	xtracting 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 worl	en preparing	7.1	Demonstrate completion of the work within the allocated time.
	to and extracting materials.		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.

Title:	Preparing and ope the workplace	and operating trenchers to extract ground and/or loose materials in lace		
Learning outcomes		Assessment criteria		
8 Comply with the give contract information extract materials us trenchers to the reconspecification.	ven 8.1 on to sing	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 report check to avoid damage to structures and utilities service apparatus recognise and determine when specific skills and knowledge are required and report accordingly extract, remove and load materials safely and securely form stockpiles be on the public highway shut down and secure trenchers use hand tools, ancillary equipment and accessories. 		
	8.7	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	ation about this	unit
Additional information about this table. 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 are	as	5.2 Building and Construction
Availability for use		Shared unit
Unit Credit value		50
Unit guided learning hours		160

Title:		nd operating 360 degree excavators to extract ground, face and/or ials in the workplace
Unit Number: J/508/6575		
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 360		1.1 Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
degree excavators extracting operati		1.2 Comply with information and/or instructions derived from risk assessments and method statements.
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		 Describe different types of information, their source and how they are interpreted in relation to: drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of 360 degree excavators for 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 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 com relevant legislation guidance when ca extracting operati 360 degree excava	n and official rrying out ons 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.

		nd operating 360 degree excavators to extract ground, face and/or ials in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and working practices preparing for and cextracting operation	when arrying out	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		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	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	1.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.		
	4	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.		
5 Request and select required quantity a of resources to pre	and quality epare for	Request and select resources associated with 360 degree excavators in relation to consumables, materials, attachments, tools, ancillary equipment and/or accessories.		
and carry out extra operations using 3 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 aids - hand tools, ancillary equipment and accessories.		
	5	Describe how the resources should be used correctly and how problems associated with the resources are reported.		

		•	rating 360 degree excavators to extract ground, face and/or the workplace		
	Learning outcomes			Assessment criteria	
Th	e learner will be able to) <i>:</i>	The le	arner can:	
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out extracting operations using 360 degree excavators.	
6	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	cting 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.	

		nd operating 360 degree excavators to extract ground, face and/or rials in the workplace		
Learning outcomes		Assessment criteria		
The learner will be able to	o: The	e 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	Prepare, position, set up and operate 360 degree excavators 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 		
	8.6	 recognise and determine when specific skills and knowledge are required and report accordingly extract, remove and load materials and commodities safely and securely form stockpiles be on the public highway 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 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:	-	ng and operating 360 degree excavators to extract ground, face loose materials 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:
		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	eas	5.2 Building and Construction
Availability for use	e	Shared unit
Unit Credit value		80
Unit guided learni hours	ng	266

Title:	Preparing and operating crawler tractor dozers to carry out dozer operations in the workplace	
Unit Number: L/508/6576		
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 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.
2 Organise with oth sequence and ope	eration in	2.1 Organise the work according to given information or instructions.
which dozer opera crawler tractor do 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 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.		 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.

	reparing and one workplace	operating crawler tractor dozers to carry out dozer operations in
Learning outcomes The learner will be able to:		ssessment criteria ne learner can:
4 Maintain safe and healthy working practices when preparing for and carrying out dozer operations using crawler		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.	4.	 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.
		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.	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	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.

Title: Preparing ar		-	rating crawler tractor dozers to carry out dozer operations in	
Learning outcomes			sment criteria	
The	e 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	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.
	carrying out dozer	operations.	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 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.

Title: Preparing an the workplace		nd operating crawler tractor dozers to carry out dozer operations in ce	
Learning outcomes The learner will be able to		Assessment criteria The learner can:	
8 Comply with the gi contract informatio out dozer operatio crawler tractor doz required specificat	on to carry ons using zers to the	Demonstrate the following work skills when preparing for and extracting, excavating, laying and distributing materials using crawler tractor dozers: - checking, adjusting, communicating, manoeuvring, positioning, measuring, extracting, excavating, laying, distributing, compacting, forming and removing.	
	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 - recognise and determine when specific skills and knowledge	
	8.6	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.	

	Preparing and operating crawler tractor dozers to carry out dozer operations in the workplace		
Additional information	tion about this unit		
Assessment Guidan	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.		
	Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.		
	Workplace evidence of skills cannot be simulated.		
	This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.		
	ProQual Level 2 NVQ Diploma in Plant Operations (Construction):		
	One of the following endorsements required:		
	Extract Excavate Construct/form Lay/distribute		
Sector subject areas	5.2 Building and Construction		
Availability for use	Shared unit		
Unit Credit value	80		
Unit guided learning hours	g 266		

Title: Preparing and open		erating 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	•	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.
	rating 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.
3 Know how to comply with relevant legislation and official guidance when carrying out excavating operations using draglines.	 3.1 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting. 	
		3.2 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 open		rating draglines to excavate ground 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 excavating operations using		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during excavating operations.
draglines.	 4.2 Demonstrate compliance with given information and relevant legislation when carrying out excavating operations using draglines in relation to two or more of the following: safe use and storage of plant or machinery safe use and storage of tools and equipment specific risks to health. 	
		 4.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to dragline use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: collective protective measures personal protective equipment (PPE) respiratory protective equipment (RPE) local exhaust ventilation (LEV).
		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 qu of resource	5 Request and select the required quantity and quality of resources to prepare for and carry out excavating operations using draglines.	5.1 Request and select resources associated with draglines 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: - consumables, lubricants and fuels - attachments and excavation aids - hand tools, ancillary equipment and accessories
		5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.

Tit	Title: Preparing and operating draglines to excavate ground materials in the workplace			raglines to excavate ground materials in the workplace
	Learning outcomes The learner will be able to:			sment criteria arner can:
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.
			5.6	Describe how to identify quantity, weight, length and area associated with the method/procedures to carry out excavating operations using draglines.
6	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	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 a	nd operating draglines to excavate ground materials in the workplace		
Learning outcomes	Assessment criteria		
The learner will be able to:	The learner can:		
8 Comply with the given contract information to excavate materials using draglines to the required specification.	 Demonstrate the following work skills when preparing for and excavating ground using draglines: 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 draglines to given working instructions to: excavate ground load or stockpile excavated ground and/or loose materials. 		
	8.4 Shut down and secure draglines.		
	 8.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: identify the characteristics of the dragline used for 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 dragline use hand tools, ancillary equipment and accessories. 		
	8.7 Describe the needs of other occupations and how to effectively communicate within a team when preparing for and carrying out excavating operations.		
	8.8 Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to excavate materials.		

Title:	Preparing and operating draglines to excavate ground materials in the workplace		
Additional	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 subje	ect areas	5.2 Building and Construction	
Availability	for use	Shared unit	
Unit Credit	value	60	
Unit guided learning hours		200	

Title: Preparing and o		erating 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.
excavating of	vators to carry out operations.	1.2 Comply with information and/or instructions derived from risk assessments and method statements.
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		 Describe different types of information, their source and how they are interpreted in relation to: drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of 360 degree excavators for excavation work.
sequence a	th others the nd operation in	2.1 Organise the work according to given information or instructions.
	rating operations egree excavators rried 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.
3 Know how to comply with relevant legislation and official guidance when carrying out excavating operations using 360 degree excavators.		 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 operation		ing 360 degree excavators to excavate ground in the workplace
Learning outcomes The learner will be able to:		Assessment criteria The learner can:
4 Maintain safe and healthy working practices when preparing for and carrying out excavating operations using 360 degree excavators.		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during excavating operations.
		 4.2 Demonstrate compliance with given information and relevan 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 resou	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.

Title: Preparing and operati		ing 360	degree excavators 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 360 degree excavators.
6	to the wo	work and surrounding 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 mater	ig materials.	6.2	Prevent damage and maintain a clean work space.
			6.3	Dispose of waste in accordance with current legislation.
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	allocated	Complete the work within the allocated time when preparing to and excavating materials.	7.1	Demonstrate completion of the work within the allocated time.
	to and ex		7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.

Title: Preparing and ope	rating 360 degree excavators to excavate ground in the workplace		
Learning outcomes	Assessment criteria		
The learner will be able to:	The learner can:		
8 Comply with the given contract information to excavate materials using 360 degree excavators to the required specification.	 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.		
	 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.		

	Preparing and operating 360 degree excavators to excavate ground in the workplace			
Additional informati	on about this unit			
Assessment Guideline	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 wheeled Excavator 360 degree above 10 tonne wheeled			
Sector subject areas	5.2 Building and Construction			
Availability for use	Shared unit			
Unit Credit value	80			
Unit guided learning hours	266			

Title:	Preparing an	nd oper	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 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 trenchers for excavation work.
2 Organise with other sequence and ope	ration in	2.1	Organise the work according to given information or instructions.
using trenchers ar 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 comply with relevant legislation and officia guidance when carrying out excavating operations using trenchers.		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		operating trenchers to excavate ground in the workplace
Learning outcomes The learner will be able to:		Assessment criteria The learner can:
4 Maintain safe and working practices preparing for and cexcavating operatite trenchers.	when carrying out	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.		 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).
	4	4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
	2	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 pre	red quantity and quality sources to prepare for	5.1 Request and select resources associated with trenchers in relation to consumables, materials, attachments, tools and ancillary equipment.
and carry out exca operations using to	_	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
	į	5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.

Tit	Title: Preparing an		nd opei	rating trenchers to excavate ground in the workplace
	Learning outcomes The learner will be able to:			arner can:
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.
			5.5	Describe any potential hazards associated with the resources and 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 su area when prepari	te the risk of damage fork and surrounding ten 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.	IIS.	6.2	Prevent damage and maintain a clean work space.
			6.3	Dispose of waste in accordance with current legislation.
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	Complete the work	hen preparing	7.1	Demonstrate completion of the work within the allocated time.
	to and excavating I	to and excavating materials.		Describe the purpose of the work programme and describe why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.

Title:	Preparing and ope	nd operating trenchers to excavate ground in the workplace		
Learning outcomes	Asse	Assessment criteria		
The learner will be able to	o: The I	earner can:		
8 Comply with the g contract informati excavate materials trenchers to the re specification.	on to s using	 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		
	8.6	 check to avoid damage to structures and utilities service apparatus recognise and determine when specific skills and knowledge are required and report accordingly excavate accurately to line and level use equipment to gauge and measure be on the public highway excavate materials safely and securely shut down and secure trenchers use hand tools, ancillary equipment and accessories. 		
	8.7	Describe the needs of other occupations and how to effectively communicate within a team when preparing for and carrying out excavating operations.		
	8.8	Describe how to maintain the plant and machinery, hand tools, ancillary equipment and accessories used to excavate materials.		

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

Title:	-	nd operating tracked loading shovels to excavate ground and loose the workplace
Unit Number: R/508/6580		
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 tracket		1.1 Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.
loading shovels to excavating operat	•	1.2 Comply with information and/or instructions derived from risk assessments and method statements.
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
		1.4 Describe different types of information, their source and how they are interpreted in relation to: - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing the operation of tracked loading shovels for excavation work.
2 Organise with oth sequence and ope	eration in	2.1 Organise the work according to given information or instructions.
which excavating of using tracked load are to be carried of	ing shovels	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 tracked loading shovels.
3 Know how to comply with relevant legislation and official guidance when carrying out excavating operations using tracked loading shovels.		3.1 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.

Title:	Preparing and materials in the	l operating tracked loading shovels to excavate ground and loose he workplace	
Learning outcomes		Assessment criteria	
The learner will be able to:		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.	
tracked loading sho		 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	4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.	
5 Request and select required quantity a of resources to pre	nd quality pare for	5.1 Request and select resources associated with tracked loading shovels in relation to consumables, materials, attachments, tools and ancillary equipment.	
and carry out excavoperations using treloading shovels.	erations using tracked 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	-		-	rating tracked loading shovels to excavate ground and loose orkplace
	Learning outcomes		Assessment criteria	
The	e 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 methods of work.
			5.6	Describe how to identify quantity, weight, length and area associated with the method/procedures to carry out excavating operations using tracked loading shovels.
6	6 Minimise the risk of damage to the work and surrounding area when preparing to and excavating materials.		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
			6.2	Prevent damage and maintain a clean work space.
			6.3	Dispose of waste in accordance with current legislation.
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
7	Complete the work	en preparing	7.1	Demonstrate completion of the work within the allocated time.
	to 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 ope materials in the w	and operating tracked loading shovels to excavate ground and loose in the workplace Assessment criteria The learner can:		
Learning outcomes The learner will be able to:				
8 Comply with the give contract information excavate materials tracked loading sho required specificati	on to using vels 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.		
	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 to: - excavate ground and/or loose materials - load or stockpile excavated ground and/or 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 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 tracked loading shovels 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 tracked loading shovels to excavate ground and loose materials in the workplace		
Additional inform	ation 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	as	5.2 Building and Construction	
Availability for use		Shared unit	
Unit Credit value		80	
Unit guided learning hours		267	

Title:	Preparing and operating graders to form and shape ground and/or loose materials in the workplace		
Unit Number:	Y/508/6581		
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 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.	
		 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 ope using graders are t out.		2.2 Describe how to communicate ideas between team members.	
		Organise and communicate with team members and other associated occupations.	
		2.4 Describe how to organise resources prior to and during forming operations using graders.	
3 Know how to comply with relevant legislation and official guidance when carrying out forming operations using graders.		 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 working practices preparing for and forming operation	healthy when carrying out	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.			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.	
			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).	
			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 Request and select required quantity of resources to pro-	and quality epare for		Request and select resources associated with graders in relation to consumables, materials, tools, ancillary equipment and/or accessories.	
and carry out forming operations using grader	_		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.	
			Describe how the resources should be used correctly and how problems associated with the resources are reported.	

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

Title:		paring and operating graders to form and shape ground and/or loose terials in the workplace		
Learning outcomes		Assessment criteria		
The learner will be able to:		The learner can:		
8 Comply with the given contract information to form ground and materials using graders to the required		 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. 		
specification.	8.	.2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8.	.3 Prepare, set-up, position and operate graders to form and shape loose materials and/or ground to given working instructions.		
	8.	.4 Shut down and secure graders.		
		 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.	 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 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	ation about this	unit	
Assessment Guida	ince	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment. Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy. Workplace evidence of skills cannot be simulated.	
Sector subject are	as	5.2 Building and Construction	
Availability for use		Shared unit	
Unit Credit value		70	
Unit guided learning hours		233	

Title:	Preparing and operating formwork rigs to construct and form in the workplace			
Unit Number: D/508/6582				
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		S	nterpret and extract relevant information from drawings, pecifications, schedules, risk assessments and nanufacturers' information.	
formwork rigs to c constructing and f operations.			omply with information and/or instructions derived from sk assessments and method statements.	
		а	rescribe the organisational procedures developed to report and rectify inappropriate information and unsuitable esources and how they are implemented.	
			describe different types of information, their source and how hey 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		organise the work according to given information or astructions.	
which constructing forming operation formwork rigs are	ns using 2.2		rescribe how to communicate ideas between team nembers.	
carried out.			Organise and communicate with team members and other ssociated occupations.	
			rescribe how to organise resources prior to and during ormwork rig operations.	
3 Know how to comply with relevant legislation and official guidance when preparing and operating formwork rigs to carry out constructing and forming operations.			escribe their responsibilities regarding potential accidents, ealth hazards and the environment whilst working: in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
		to	rescribe the organisational security procedures for plant, pols, equipment and personal belongings in relation to site, workplace, company and operative.	
			xplain what the accident reporting procedures are and who responsible for making reports.	

Title: Preparing an		nd operating formwork-rigs to construct and form in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when preparing and operating formwork rigs to construct a		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during formwork rig operations.		
form.		 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 required quantity of resources to pre	and quality epare 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 car 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 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		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	operating formwork construct and form	_	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 and operating formwork rigs to carry out constructing and forming operations.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.	

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

Title:	Preparing an	Preparing and operating formwork rigs to construct and form in the workplace				
Additiona	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:				
		Formwork rig slipform vertical Formwork rig slipform horizontal Formwork rig climbing/jumping				
Sector sub	oject areas	5.2 Building and Construction				
Availabilit	y for use	Shared unit				
Unit credi	t value	52				
Unit guided learning hours		173				

Title:	Preparing and operating truck-mounted boom concrete pumps to receive, pump and discharge materials in the workplace		
Unit Number: H/508/6583			
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.	
concrete pumps to pumping and disc 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 truckmounted boom 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	Describe how to communicate ideas between team members.	
carried out.		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			nd operating truck-mounted boom concrete pumps to receive, pump ge materials in the workplace		
	Learning outcomes The learner will be able to:		Assessm The learn	nent criteria per can:	
4	Maintain safe and healthy working practices when preparing for and carrying out pumping operations using concrete pumps.		w a	se health and safety control equipment safely and comply with the methods of work to carry out the activity in ccordance with legislation and organisational requirements uring concrete pumping operations.	
			le tr m -	emonstrate compliance with given information and relevant egislation when carrying out pumping operations using ruck-mounted boom concrete pumps in relation to two or nore of the following: - safe use and storage of plant or machinery - safe use and storage of tools and equipment - specific risks to health.	
			ic re li	xplain why and when health and safety control equipment, dentified by the principles of protection, should be used, elating to concrete pump use, and the types, purpose and mitations of each type, the work situation and general work nvironment, in relation to: - collective protective measures - personal protective equipment (PPE) - respiratory protective equipment (RPE) - local exhaust ventilation (LEV).	
			е	escribe how the relevant health and safety control quipment should be used in accordance with the given orking instructions.	
			a sl	escribe how emergencies should be responded to in ccordance with organisational authorisation and personal kills when involved with fires, spillages, injuries and other ask-related activities.	
5	Request and select the required quantity and quality of resources to prepare for	and quality epare for	ir	equest and select resources associated with concrete pumps in relation to consumables, materials, tools, ancillary quipment and/or accessories.	
	and carry out pumping operations using concrete pumps.		li	escribe the characteristics, quality, uses, sustainability, mitations and defects associated with the resources, and ow they should be used correctly, relating to: consumables, lubricants and fuels attachments and load coverings hand tools, ancillary equipment and accessories.	

		d operating truck-mounted boom concrete pumps to receive, pump e 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	6 Minimise the risk of damage to the work and surrounding area when preparing to and pumping materials using concrete pumps.		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 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.	

		operating truck-mounted boom concrete pumps to receive, pump materials in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
8 Comply with the g contract informati receive, pump and materials using co pumps to the requ	on to 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	3.2 Use and maintain hand tools, ancillary equipment and/or accessories.		
	8	B.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	3.4 Shut down and secure concrete pumps.		
	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 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 - 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	2.7 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	Describe how to maintain the plant and machinery, hand tools and ancillary equipment used pumping and discharging operations.		

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

Title: Preparing ar workplace		nd operating soil stabilisers to lay and distribute materials in the		
Unit Number: K/508/6584				
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 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.		
		 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 other sequence and ope	ration in	2.1 Organise the work according to given information or instructions.		
which laying and d operations using s stabilisers are to b	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 com relevant legislation guidance when ca laying and distribution operations using stabilisers.	n and official rrying out ition	 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting. 		
	3.2	3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.		
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.		

Title:	Preparing and workplace	and operating soil stabilisers to lay and distribute materials in the		
Learning outcomes		Assessment criteria		
The learner will be able to	: T	he learner can:		
4 Maintain safe and l working practices w preparing for and c laying and distribut	when arrying out	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. 		
	4	1.3 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	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	5.1 Request and select resources associated with soil stabilisers in relation to consumables, materials, tools, ancillary equipment and/or accessories.		
and carry out laying distribution operat 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.		
	5	Describe how the resources should be used correctly and how problems associated with the resources are reported.		

Title: Preparing ar workplace		nd operating soil stabilisers to lay and distribute materials in the				
	Learning outcomes			Assessment criteria		
The	e learner will be able to) <i>:</i>	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	6 Minimise the risk of damage to the work and surrounding area when preparing to and laying and distributing materials.		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.		
			6.2	Prevent damage and maintain a clean work space.		
			6.3	Dispose of waste in accordance with current legislation.		
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.		
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.		
7	Complete the work within the allocated time when preparing	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 a workplace		d 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 gi contract information and distribute mate soil stabilisers to the	on to lay erials using	8.1 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.		8.2 Use and maintain hand tools, ancillary equipment and/or accessories.		
		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.		
		8.4 Shut down and secure soil stabilisers.		
		 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 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 8.6 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 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 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 informa	ation about this unit			
Assessment Guida	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.			
	Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.			
	Workplace evidence of skills cannot be simulated.			
	This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.			
	ProQual Level 2 NVQ Diploma in Plant Operations (Construction):			
	One of the following endorsements required:			
	Soil stabiliser self-propelled Soil stabiliser towed			
Sector subject area	5.2 Building and Construction			
Availability for use	Shared unit			
Unit credit value	40			
Unit guided learnir hours	ng 133			

Title: Prepari		and operating plant or machinery from a floating vessel in the		
Unit Number: M/508/6585				
Learning outcomes The learner will be able t		Assessment criteria		
Interpret the given information relation preparing and open.	n ng to	1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.		
or machinery fron vessel.	n a floating	1.2 Comply with information and/or instructions derived from risk assessments and method statements.		
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.		
		 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	eration in	2.1 Organise the work according to given information or instructions.		
which plant or ma operations from a vessel are to be ca	floating	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 floating vessel operations.		
3 Know how to com relevant legislation guidance when ca plant or machiner from a floating ve	n and official rrying out y operations	 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. 		
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.		
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.		
		3.4 Describe the types of fire extinguishers available when carrying out plant or machinery operations from a floating vessel, and explain how and when they are used.		

Title	Title: Preparing ar workplace		nd operating plant or machinery from a floating vessel 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 plant or machinery operations		,	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during floating vessel operations.	
	from a floating vessel.			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.	
			į	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.	
			;	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.	
			1	Demonstrate the safe use of a fire extinguisher relevant to a typical fire associated with carrying out plant or machinery operations from a floating vessel as relevant to the operation.	
5	Request and select the required quantity and quality of resources to prepare for and carry out plant or machinery operations from a floating vessel.	and quality epare for		Request and select resources associated with the work in relation to consumables, materials, plant, machinery, attachments, tools and ancillary equipment.	
				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. 	

Title: Preparing ar workplace		nd operating plant or machinery from a floating vessel in the				
	Learning outcomes			Assessment criteria		
The	e learner will be able to) <i>:</i>	The le	arner can:		
5 Continued		5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.			
			5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and methods of work.		
			5.6	Describe how to identify weight, ballast, quantity, length and area associated with the method/procedure to carry out work from a floating vessel.		
6	6 Minimise the risk of damage to the work and surrounding area when carrying out plant or machinery operations from a floating vessel.		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 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: Prepa	ring and operatin	g plant or machinery from a floating vessel in the workplace			
Learning outcomes	Asse	Assessment criteria			
The learner will be able to:		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 requir specification.	ed 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.	

Title:

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.

<u>ProQual Level 2 NVQ Diploma in Plant Operations (Construction):</u>

Six of the following endorsements required:

Lift

Transfer

Extract

Excavate

Construct

Form

Receive

Access

Distribute

Demolish

Process

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

Title:	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace		
Unit Number: A/508/6587			
Learning outcomes The learner will be able to:		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.	
		 1.4 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 comply with relevant legislation and official guidance to prepare and use powered units, tools or pedestrian plant, machinery or equipment.		2.1 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.	
		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.	

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:			sment criteria arner can:	
3	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.	ources 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		Assessment criteria		
The learner will be able to: 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	5 Minimise the risk of damage 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:	Preparing an equipment in	-	ating powered units, tools or pedestrian plant, machinery or orkplace	
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		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 plant 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.	
		7.5	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 - operate, use and control - monitor and maintain - replenish consumables - close down and secure	
			disassemble and cleanuse access equipmenttransport 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 informa	Additional information about this unit					
Assessment Guidar	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 learnin	g 23					

Title: Erecting and		disma	ntling plant (cranes and rigs) in the workplace
Unit Number: F/508/6588			
Learning outcomes The learner will be able t	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.	plant.		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 opera 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 erecting and dismantling operations.
relevant legislation guidance when er	3 Know how to comply with relevant legislation and official guidance when erecting and dismantling plant.		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:	Erecting and	Erecting and dismantling plant (cranes and rigs) in the workplace		
Learning outcomes The learner will be able to	o:	Assessment criteria The learner can:		
4 Maintain safe and healthy working practices when carrying out erecting and dismantling of plant.		4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during erecting and dismantling operations.		
		 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 Request and select required quantity of resources to ca	and quality rry out	5.1 Request and select resources associated with the work in relation to consumables, materials, attachments, tools, and ancillary equipment.		
erecting and dismantling of plant.	antling of	 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 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.		
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, pressure, quantity, length and area associated with the method/procedures to carry out the work.	
6	to the work and surrounding area when erecting and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	dismantling plant.		6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	7 Complete the work within the allocated time when erecting and dismantling plant.		7.1	Demonstrate completion of the work within the allocated time.	
			7.2	Describe the purpose of the work programme and describe why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.	

Title:	Erecting and dis	smantling plant (cranes and rigs) in the workplace			
Learning outcomes		Assessment criteria			
The learner will be able to:		The learner can:			
8 Comply with the given contract information to erect and dismantle plant to the required specification.	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. 			
	8.	 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 			
	8.	identify valid certification for maintenance inspection			
	8.	Describe the needs of other occupations and how to effectively communicate within a team when preparing for and erecting and dismantling plant.			
		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 are	a	5.2 Building and Construction
Availability for use	9	Shared unit
Unit credit value		36
Unit guided learning hours		130



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