

Level 2 NVQ Diploma in Plant Installations (Construction)

Qualification Specification

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Introduction

The ProQual Level 2 NVQ Diploma in Plant Installations (Construction) qualification provides a nationally recognised qualification for those working in this specialised area of construction. There are two pathways available

Pathway 1: Hoist

Pathway 2: Tower Crane.

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.

Qualification Profile Level 2 NVQ Diploma in Plant Installations (Construction)

Qualification title ProQual Level 2 NVQ Diploma in Plant Installations

(Construction)

Ofgual qualification number 603/0327/X

Level 2

Total Qualification Time 930 hours (311 GLH)

Pass or fail

Assessment Internally assessed and verified by centre staff

External quality assurance by ProQual verifiers

Qualification start date 25/08/16

Qualification end date

Entry Requirements

There are no formal entry requirements for this qualification.

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

Qualification Structure

To achieve the qualification candidates must complete the three Mandatory units, plus the required Mandatory and Optional units for one of the pathways.

Pathway 1: Hoist

Pathway 2: Tower Crane

Candidates may complete the Additional Unit but this will not count towards the qualification.

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

Mandatory Ur	nits		CITB references provided for information only
Unit Ref.	Title	Level	CITB Internal Unit Ref.
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	641
Y/508/6533	Moving, handling and storing resources in the workplace	2	643
L/615/1887	Installing plant or machinery for operational activities in the workplace	3	667v1

Pathway 1: Hoist

Candidates must complete 5 Mandatory units plus 2 Optional units. Candidates may also complete the Additional Unit for this pathway but this will not count towards the qualification.

Mandatory Ur	nits		CITB references provided for information only	
Unit Ref.	Ref. Title Level			
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	641	
Y/508/6533	Moving, handling and storing resources in the workplace	2	643	
L/615/1887	Installing plant or machinery for operational activities in the workplace	3	667v1	
R/615/1888	Dismantling pre-installed hoists in the workplace	2	P26A	
Y/615/1889	Preparing and operating hoists during installation activities in the workplace	2	384A	
Optional Units	s – TWO units		CITB references provided for information only	
Unit Ref.	Title	Level	CITB Internal Unit Ref.	
R/615/1891	Carrying out basic maintenance on installed plant and equipment in the workplace	2	P27v1	
A/508/6525	Slinging and hand signalling the movement of suspended loads in the workplace	2	402Av1	
D/615/1893	Inspecting plant or machinery for operational serviceability in the workplace	2	663v2	
H/615/1894	Diagnosing faults in plant or machinery systems or components in the workplace	3	664v1	
K/615/1895	Handing over plant or machinery to the control of others in the workplace	3	672v1	

Additional Unit for Pathway 1

Unit Ref.	Title	Level	CITB Internal Unit Ref.
Y/508/6483	Preparing and operating hoists to lift and transfer loads in the workplace	2	3870v2

Pathway 2: Tower Crane

Candidates must complete 5 Mandatory units, plus 2 Optional units.

Mandatory Ur	nits		CITB references provided for information only			
Unit Ref.	Title	CITB Internal Unit Ref.				
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	641			
Y/508/6533	Moving, handling and storing resources in the workplace	2	643			
L/615/1887	Installing plant or machinery for operational activities in the workplace	3	667v1			
M/615/1896	Dismantling pre-installed tower cranes in the workplace	2	P26B			
A/508/6525	\sqrt{508/6525} Slinging and hand signalling the movement of suspended loads in the workplace					
Optional Units	s – TWO units		CITB references provided for information only			
Unit Ref.	Title	Level	CITB Internal Unit Ref.			
R/615/1891	Carrying out basic maintenance on installed plant and equipment in the workplace	2	P27v1			
T/615/1897	Preparing and operating tower cranes during 2 installation activities in the workplace		384B			
D/615/1893	Inspecting plant or machinery for operational serviceability in the workplace	2	663v2			
H/615/1894	Diagnosing faults in plant or machinery systems or components in the workplace	3	664			

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 10.

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 -

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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

Ur	Jnit Number: M/508/6537			
Learning outcomesAssessment criteriaThe learner will be able to:The learner 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	2 Recognise hazards associated with the workplace that have not been previously controlled and report them in accordance with organisational procedures.	ace that have usly controlled	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: Conform	ing to general health, safety and welfare in the workplace.	
Learning outcomes The learner will be able to:	Assessment criteria The learner can:	
2 continued	2.4 List the current Health and Safety Executive top five health risks.	
	2.5 State how changing circumstances within the workplace could cause hazards.	
	2.6 State the methods used for reporting changed circumstances, hazards and incidents in the workplace.	
3 Comply with organisation policies and procedures	o safe systems of work and quality working practices.	
contribute to health, said welfare.	3.2 Contribute to discussions by offering/providing feedback relating to health, safety and welfare.	
	3.3 Contribute to the maintenance of workplace welfare facilities in accordance with workplace welfare procedures.	
	3.4 Safely store health and safety control equipment in accordance with given instructions.	
	3.5 Dispose of waste and/or consumable items in accordance with legislation.	
	 3.6 State the organisational policies and procedures for health, safety and welfare, in relation to: dealing with accidents and emergencies associated with the work and environment methods of receiving or sourcing information reporting stopping work evacuation fire risks and safe exit procedures consultation and feedback. 	
	3.7 State the appropriate types of fire extinguishers relevant to the work.	
	3.8 State how and when the different types of fire extinguishers are used in accordance with legislation and official guidance.	

Title:		Conforming to general health, safety and welfare in the workplace.		
	ing outcome		Assessment criteria The learner can:	
4 Work responsibly to contribute to workplace health, safety and welfare whilst carrying out work in the relevant occupational area.		4.1	Demonstrate behaviour which shows personal responsibility for general workplace health, safety and welfare.	
		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 Comply with and support all organisational security arrangements and approved procedures.		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	ation about this	unit	
Assessment Guida	ance	This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment. Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy. Workplace evidence of skills cannot be simulated.	
Sector Subject Are	ea	05.2 Building and Construction	
Availability for use		Shared unit	
Unit guided learning hours		7	

Title:	Moving, handling and storing resources in the workplace		
Unit Number	Y/508/6533		
Learning outcomes The learner will be able to:			ssment criteria arner can:
Comply with given information when moving, handling and/or storing		1.1	Interpret the given information relating to moving, handling and/or storing resources, relevant to the given occupation.
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.		2.1	Describe their responsibilities under current legislation and official guidance whilst working: — in the workplace, in confined spaces, below ground level, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
		2.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
		2.3	Explain what the accident reporting procedures are and who is responsible for making the reports.
		2.4	State the appropriate types of fire extinguishers relevant to the work.
		2.5	Describe how and when the different types of fire extinguishers, relevant to the given occupation, are used in accordance with legislation and official guidance.
3 Maintain safe practices whe handling and, resources.	en moving,	3.1	Use health and safety control equipment safely to carry out the activity in accordance with legislation and organisational requirements when moving, handling and/or storing resources.
		3.2	Use lifting aids safely as appropriate to the work.

Title:	Moving, handling and storing resources in the workplace				
Learning outcomes		Assessment criteria			
The learner will be a	able to:	The le	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.		
			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.		
	esources for the	4.1	Select the relevant resources to be moved, handled and/or stored, associated with own work.		
methods of work to more handle and/or store occupational resources.	store	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	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.		
occupational re	revent the risk of damage to ccupational resources and urrounding environment	5.1	Protect occupational resources and their surrounding area from damage in accordance with safe working practices and organisational procedures.		
storing resourc		5.2	Dispose of waste and packaging in accordance with legislation.		

Title: Moving, handling and storing resources in the workplace			
Learning outcomes The learner will be able to:	Assessment criteria The learner can:		
5 continued	5.3 Maintain a clean work space when moving, handling or storing resources.		
	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 safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.		
6 Complete the work within the allocated time when	6.1 Demonstrate completion of the work within the allocated time.		
moving, handling and/or storing resources.	6.2 State the purpose of the work programme and explain why deadlines should be kept in relation to: - progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.		
7 Comply with the given occupational resource information to move, handle and/or store	 7.1 Demonstrate the following work skills when moving, handling and/or storing occupational resources: moving, positioning, storing, securing and/or using lifting aids and kinetic lifting techniques. 		
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	nation about this	unit		
Assessment Guidance Sector Subject Areas Availability for use Unit guided learning hours		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.		
		05.2 Building and Construction		
		Shared unit		
		17		

Title:	Slinging and hand signalling the movement of suspended loads in the workplace			
Unit Number: A/508/6525				
Learning outcomes The learner will be able t	o:	Assessment criteria The learner can:		
Interpret the given information relating to the preparation for and the		1.1 Interpret and extract relevant information from drawings, specifications, schedules, risk assessments, method statements (lift plans) and manufacturers' information.		
slinging and signal	ling of loads.	1.2 Comply with information and/or instructions derived from risk assessments and method statements.		
		1.3 Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.		
		 Describe different types of information, their source and how they are interpreted in relation to: drawings, specifications, schedules, method statements, risk assessments, lift plans, work instructions, manufacturers' information, approved procedures and Codes of Practice. 		
2 Organise with other sequence and ope	ration in	2.1 Organise the work according to given information or instructions.		
which the slinging signalling of loads carried out.		Describe how to communicate ideas between team members.		
		2.3 Organise and communicate with team members and other associated occupations.		
		2.4 Describe how to organise resources prior to and when slinging and signalling of loads.		
3 Know how to comply with relevant legislation and official guidance to carry out slinging and signalling of loads.		 Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting. 		
		3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.		
		3.3 Explain what the accident reporting procedures are and who is responsible for making reports.		

Title:	Slinging and	nd hand signalling the movement of suspended loads 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 preparing for and slinging and signalling loads.		Use health and safety control of with the methods of work to caccordance with legislation an when slinging and signalling lo	arry out the activity in dorganisational requirements	
		Demonstrate compliance with legislation when carrying out t loads in relation to at least three safe use and storage of to safe use, storage and han safe use of access equipments specific risks to health.	ee of the following: ools and equipment dling of lifting accessories	
		Explain why and when health a identified by the principles of prelating to slinging and signalli purpose and limitations of eac general work environment, in — collective protective meas — personal protective equip — respiratory protective equ — local exhaust ventilation	orotection, should be used, ng of loads, and the types, h type, the work situation and relation to: sures ment (PPE)	
	Describe how the relevant hea equipment should be used in a working instructions.	-		
		Describe how emergencies sho accordance with organisationa skills when involved with fires, task-related activities.	l authorisation and personal	
and quality of reso prepare for and wl	and quality of resources to prepare for and when slinging	Select resources associated wire to lifting accessories/aids, hand equipment.	th slinging/signalling in relation d tools and ancillary	
and signalling loads.	Describe the characteristics, que limitations and defects associated how they should be used correduced to lifting accessories — signalling and communicated to hand tools and ancillary expressions.	ited with the resources, and ectly, relating to: tion equipment		
		Describe how the resources sh how problems associated with	• •	

Tit	le:	Slinging and hand signalling the movement of suspended loads in the workplace			
	Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
5	5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
			5.5	Describe any potential hazards associated with the resources and methods of work.	
			5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out slinging/signalling.	
6	to the work and surrounding area when preparing to and		6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	slinging and signall	ing ioaus.	6.2	Prevent damage and maintain a clean work space.	
			6.3	Dispose of waste in accordance with current legislation.	
			6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
			6.5	Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
7	allocated time when preparing	en preparing	7.1	Demonstrate completion of the work within the allocated time.	
	to and slinging and signalling 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:	Slinging and h	nging and hand signalling the movement of suspended loads in the workplace		
Learning outcomes The learner will be able to	o.	Assessment criteria The learner can:		
8 Comply with the given contract information to prepare to and sling and signal suspended loads for movement to the required specification.		 8.1 Demonstrate the following work skills when preparing to and slinging and signalling loads: – measuring, gauging, estimating, calculating, fitting, fixing, testing, balancing, interpreting, inspecting, judging, explaining, preparing, indicating, informing, instructing, signing, positioning, adjusting, configuring, moving, securing, signalling and relaying. 		
		8.2 Use and maintain lifting accessories, lifting aids and equipment.		
		8.3 Inspect and prepare lifting accessories prior to slinging.		
	8.4	 8.4 Prepare to and attach suspended loads to lifting equipment, using appropriate lifting accessories and load securing methods, to given working instructions for three of the following: balanced unbalanced loose bundled container drum a load where the machine operator cannot observe its full movement path. 		
		 8.5 Guide, move and place suspended loads to specified destinations, using hand signals, to given working instructions for three of the following: balanced unbalanced loose bundled container drum a load where the machine operator cannot observe its full movement path. 		
		 8.6 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: identify the differences between: slinging and signalling, directing and guiding movement of vehicles, plant and machinery, and directing and guiding operations of plant and machinery not being used for lifting operations confirm the authority, duties and responsibilities allocated identify characteristics of lifting equipment and lifting accessories identify and interpret valid certification for maintenance, inspection and thorough examination 		

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

Title:	Slinging and hand signalling the movement of suspended loads in the workplace						
Additional inform	ation abou	ut 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 qualification. ProQual Level 2 NVQ Diploma in Plant Maintenance (Construction): The following endorsement required (i.e. own area of work): Slinger/signaller – plant installations (tower crane only)					
Sector subject area	as	5.2 Building and Construction					
Availability for use		Shared unit					
Unit guided learnii	ng hours	ırs 33					

Title:	Title: Installing plant or machinery for operational activities in the workplace		chinery for operational activities in the workplace	
Unit Number: L/615/1887				
Learning outcome The learner will be a		Assessment criteria The learner can:		
Interpret the given information relating to the work and resources when installing plant or		1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments, installation manuals and manufacturers' information.	
machinery for activities.	operational	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, installation manuals manufacturers' information and current regulations associated with the installation of plant and machinery.	
2 Know how to comply with relevant legislation and official guidance when installing plant or machinery for operational activities.		2.1	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.	
		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.	
3 Maintain safe working pract installing plan machinery for activities.	ices when t or	3.1	Use health and safety control equipment and access equipment (if applicable) safely to carry out the activity in accordance with current legislation and organisational requirements when installing plant or machinery for operational activities.	
		3.2	Comply with information relating to specific risks to health when installing plant or machinery for operational activities.	

Title: Installing plan	t or machinery for operational activities in the workplace		
Learning outcomes The learner will be able to:	Assessment criteria The learner can:		
3 continued	3.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to installing plant or machinery for operational activities and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: - collective protective measures - personal protective equipment (PPE) - respiratory protective equipment (RPE) - local exhaust ventilation (LEV).		
	3.4 Describe how the relevant health and safety control equipment should be used in accordance with the given 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 hazards.		
4 Select the required quantity and quality of resources for the methods of work to	4.1 Select resources associated with own work in relation to materials, components, fixings, tools, equipment and consumables.		
install plant or machinery for operational activities.	 4.2 Describe the characteristics, quality, uses, sustainability limitations and defects associated with the resources in relation to: lifting accessories fastening, ties, anchors and fixings consumables measuring and levelling equipment hand tools, portable powered tools and equipment. 		
	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 calculate quantity, length, volume, area and wastage associated with the method/procedure to install plant or machinery for operational activities.		

Tit	le:	Installing plant	ng plant or machinery for operational activities in the workplace		
	Learning outcomes			sment criteria	
The	The learner will be able to: 5 Minimise the risk of damage to the work and		The le	Protect the work and its surrounding area from damage in accordance with safe working practices and	
	surrounding a			organisational procedures.	
	for operationa	•	5.2	Minimise damage and maintain a clean work space.	
			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 installing plant or machinery for operational activities.		6.1	Demonstrate completion of the work within the allocated time.	
			6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.	
7	Comply with the contract information install plant or for operational the required s	mation to machinery Il activities to	7.1	Demonstrate the following work skills when installing plant or machinery for operational activities: – measuring, marking, aligning, laying, levelling, plumbing, adjusting, fitting, connecting, fixing, fastening and securing.	
			7.2	Install plant or machinery to given working instructions for one of the following types: - crane (mobile or ringer) - tower crane - hoist (passenger, goods or building maintenance units) - rig (demolition, piling or drilling) - excavation or vacuum plant or machinery - batching, mixing or blending plants - crushing or screening plants - power generation equipment - pump - climate management machines - concrete placing boom.	

Title:	Installing plant	t or ma	chinery for operational activities in the workplace	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
7 continued		7.3	Complete functional, operational and safety checks on plant or machinery, to given working instructions.	
		7.4	Complete and maintain records when installing plant or machinery for operational activities.	
		7.5	Safely use and handle materials, hand tools, portable power tools, measuring instruments and ancillary equipment.	
		7.6	Safely store the materials, tools and equipment used when installing plant or machinery for operational activities.	
		7.7	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to: — install plant and machinery; mobile and ringer cranes, tower cranes, passenger and goods hoists, piling and drilling rigs, excavation plant or machinery, batching plants, crushing and screening plants, power generation equipment, pumps, climate management machines — assess suitability of conditions for installation requirements (site layout, location, availability of space, levels, prevailing weather conditions) — operate and control lifting equipment and lifting aids — confirm the integrity of lifting accessories — consider the resources required for the installation of plant and machinery — confirm parts, components, attachments, accessories are available to complete the installation — secure plant and machinery parts and components for movement and lifting into position — align, attach and secure plant and machinery parts and components (tied in, pinned, clamped, bolted and screwed) — fixing plant or machinery to load bearing structures — install and test anchors and ties — route, lay, connect and secure cables, pipes and hoses — connect power supplies — make adjustments to ensure optimum operational function — liaise with client, customer or their representatives — deal with damages and defects that can occur during installation, misaligned components, cracked casings and housings, leaks, scoring and marking of parts and components and breakages	

Title:	Installing plant or machinery for operational activities in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria the learner can:	
7 Continued		 confirm installation functionality me expectations complete functional operational and use hand tools, portable power tool equipment work at height use access equipment complete and maintain records. 	d safety checks
		7.8 Describe the needs of other occupations effectively communicate within a team within or machinery for operational activities.	vhen installing
		7.9 Describe how to maintain the tools and e when installing plant or machinery for opactivities.	

Title:	Installing plant or machinery for operational activities in the workplace		
Additional information about this unit			
Assessment Guida		This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment. Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy. Workplace evidence of skills cannot be simulated. This unit must be assessed against the endorsements detailed within the relevant NVQ structure. ProQual Level 2 NVQ Diploma in Plant Installations (Construction): One of the following endorsements required:	
		Tower crane – self erect	
		Tower crane – assisted erect	
Sector Subject Are	ea	5.2 Building and Construction	
Availability for use		Shared unit	
Unit guided learning hours		180	

Title:	Dismantling pre-installed hoists in the workplace			
Unit Number: R/615/1888				
Learning outcome The learner will be o		Assessment criteria The learner can:		
Work safely at all times when dismantling installed hoists.		1.1	Comply with current health and safety legislation and other relevant regulations and guidelines applicable to the dismantling of installed hoists.	
		1.2	Use personal protective equipment (PPE) relevant to hoist dismantling activities.	
		1.3	Describe health and safety legislation, regulations, safe working practices and procedures and company health and safety policies and workplace procedures that apply when dismantling installed hoists.	
		1.4	State health and safety issues and describe reasons for possible injuries when dismantling installed hoists at height, in confined spaces and below ground level.	
Carry out preparation activities in order to dismantle pre-installed		2.1	Identify and extract applicable information from relevant information sources when dismantling installed hoists.	
hoists and/or components.	components.	2.2	Establish and, where appropriate, mark components to aid re-assembly.	
		2.3	Ensure that any stored energy or substances are released safely and correctly.	
		2.4	Follow relevant dismantling instructions, disassembly drawings and any other relevant specifications to aid dismantling.	
		2.5	Describe different sources of information and technical literature to aid the dismantling of hoists and/or components.	
		2.6	Make all isolations and disconnections to installed hoists in line with approved procedures.	
		2.7	Give reasons for the importance of dismantling installed hoists in the correct sequence and explain the possible consequences should procedures not be followed.	

Tit	le:	Dismantling pre-installed hoists in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
3 Dismantle a range of relevant pre-installed hoists in the workplace following		3.1	Carry out dismantling operations on installed hoists, relevant to the occupational area on sites and/or client's premises, whilst conforming to given level of responsibility.	
	safe systems o	f work.	3.2	Disassemble installed hoists using correct tools and techniques and following clearly defined procedures.
			3.3	Describe the type or types of approved dismantling methods, techniques, procedures, and tools and equipment needed to dismantle installed hoists relevant to the occupational area.
			3.4	Take suitable precautions to prevent damage to components, tools and equipment during dismantling operations.
			3.5	Outline the safe manual handling methods, safe removal procedures of components, and safe use requirements of lifting equipment during dismantling operations on installed hoists.
			3.6	Describe ways of protecting tools, accessories and equipment when dismantling relevant installed hoists, how to use lifting equipment and lifting aids, and how to store and keep secure specialist tools and equipment.
			3.7	Describe the possible types of damage that can occur to hoists and their components, when dismantling installed units.
4	4 Segregate and sort parts and components from		4.1	Label and store parts, components and sub-assemblies from dismantled hoists for reuse in approved locations.
	dismantled hoists for disposal and/or reuse.		4.2	Discard unwanted dismantled components, parts, sub- assemblies or substances in accordance with approved procedures.
			4.3	State the organisational instructions and procedures for dealing with damages and defects, and the disposing of hazardous and non-hazardous waste substances.
5	5 Comply with organisation communication proced when dismantling insta	n procedures	5.1	Demonstrate dealing promptly and effectively with problems within given control and report those that cannot be solved to other designated personnel.
	hoists.		5.2	State the organisations reporting lines and procedures associated with the dismantling of installed hoists.

Title:	Dismantling pre-installed hoists 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 Installations (Construction):		
		One of the following endorsements required:		
		Hoist rack and pinion goods Hoist passenger/goods combined Hoist rope operated goods Hoist transport platform		
Sector subject are	ea	05.2 Building and Construction		
Availability for use		Shared unit		
Unit guided learning hours		27		

Title:	Preparing and operating hoists during installation activities in the workplace			
Unit Number: Y/615/1889				
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
Interpret the given information relating to the use of hoists during		1.1 Interpret and extract information from drawings, specifications, schedules and manufacturers' information.		
installation acti	-	1.2 Comply with information and/or instructions derived from risk assessments and method statement.		
		1.3 State 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, manufacturers' information, method statements, risk assessments and guidance applicable to hoist operations. 		
2 Know how to comply with relevant legislation and official guidance when operating hoists during installation activities.		 Describe their responsibilities under current legislation and official guidance whilst working: in the workplace, below ground level, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting. 		
		2.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.		
		2.3 State what the accident reporting procedures are and who is responsible for making reports.		
3 Maintain safe working practices when operating hoists during installation		3.1 Use personal protective equipment (PPE) safely and carry out the activity in accordance with legislation and organisational requirements.		
activities.		3.2 Explain why and when personal protective equipment (PPE) should be used, relating to hoist installation operations, and the types, purpose and limitations of each type.		
		3.3 State 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 hazards.		

Title:	Preparing and	ring and operating hoists during installation activities in the workplace		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
4 Comply with the given contract information to prepare and operate hoists during installation activities,			monstrate the following work skills when preparing d operating hoists during installation activities: checking, adjusting, operating, communicating, manoeuvring and positioning.	
specification.	to the required specification.		epare and operate hoists in the workplace to given orking instructions whilst engaging in installation civities.	
		ha	scribe how to apply safe work practices, the typical zards, follow procedures, how problems are reported d the authority needed to rectify, to: identify the characteristics of the hoist that is to be installed, erected, altered or dismantled carry out pre-use checks prepare, set up, check and adjust for operational requirements, safety and security carry out functional and operational checks confirm hoist and equipment stability and security shut down and secure the hoist.	
		4.4 Us	e ancillary equipment and machinery.	
		со	nte the needs of other occupations and how to mmunicate within a team when preparing for and erating hoist during installation activities.	

Title:	Preparing and operating hoists during installation activities in the workplace			
Additional information about this unit				
Assessment Guidance		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.		
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, 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 Installations (Construction):		
		One of the following endorsements required:		
		Hoist rack and pinion goods Hoist passenger/goods combined Hoist rope operated goods Hoist transport platform		
Sector Subject Are	ea	05.2 Building and Construction		
Availability for use		Shared unit		
Unit guided learning hours		23		

Title:		Carrying out basic maintenance on installed plant and equipment in the workplace		
Unit Number: R/615/1891				
Learning outcomes The learner will be able to:			sment criteria arner can:	
Work safely at all times when carrying out basic maintenance on installed		1.1	Comply with current health and safety legislation, and other relevant regulations and guidelines applicable to the basic maintenance of installed plant and equipment.	
plant and	equip	oment.	1.2	Use personal protective equipment (PPE) relevant to installed plant and equipment maintenance activities.
		1.3	Describe health and safety legislation, regulations, codes of practice, official guidance, safe working practices and procedures and company health and safety policies and workplace procedures that apply to basic maintenance activities.	
		1.4	Describe the safe and correct use of personal protective equipment (PPE) and manual handling procedures when carrying out basic maintenance activities on installed plant and equipment to the occupational area.	
		1.5	State reasons for the care and protection of surrounding areas and persons affected by the work, and possible injuries through: - the release of substances - slipping on wet/greasy surfaces - working at height.	
	2 Follow the relevant maintenance schedules to		2.1	Identify and extract applicable maintenance schedule and related specifications from relevant information sources.
carry out	carry out the required		2.2	Outline maintenance schedules and durations for typical plant and equipment within the occupational area.
			2.3	Describe typical information contained within manufacturers operation and maintenance manuals.
3 Maintain a range of plant and equipment used in the construction and allied industries in both operational and non- operational situations.	used in the	3.1	Carry out typical basic maintenance activities according to manufacturer's specifications and organisational procedures within the limits of their personal authority.	
	al and	nd non-	3.2	Maintain to a basic level, typical plant and equipment relevant to the occupational area on construction sites and/or client's premises.
		3.3	Describe the routine maintenance methods and procedures required by manufacturers, and the organisational instructions and procedures when maintaining plant and equipment.	

Title:		Carrying out basic maintenance on installed plant and equipment in the workplace		
Learning outcomes		Assessment criteria		
The learner will be able to: 3 Continued		3.4	Outline the types of available resources, tools and equipment and their suitability for different maintenance tasks, and the different application techniques for applying and replenishing lubricants.	
		3.5	Carry out basic maintenance activities in the specified sequence and complete the activities within the agreed timescale.	
		3.6	Describe how to carry out sensory, functional and safety checks on the plant and equipment prior to, during and on completion of basic maintenance tasks as specified by the manufacturers.	
for non-	4 Comply with the procedures for non-planned occurrences when carrying out basic maintenance on plant and equipment.		4.1	Demonstrate following procedures where the maintenance activities cannot be fully met, or where there are identified defect outside of the planned schedule.
			4.2	Describe typical problems that can occur during basic maintenance tasks on plant and equipment within the occupational area, and how recognised problems can be rectified.
mainten	ance i		5.1	Complete relevant maintenance records accurately and pass them onto the appropriate person.
and was	documentation procedures and waste disposal procedures when carrying		5.2	Dispose of waste materials and substances in accordance with safe working practices and approved procedures.
out basion plant and		itenance on ipment.	5.3	Outline the type of maintenance records kept by the organisation and the service history of individual machines.
			5.4	Describe the importance of keeping servicing and maintenance records, organisational and statutory requirements for record keeping, operational efficiency in keeping records and customer requirements (where applicable) of requiring accurate records.
			5.5	State the organisational procedures for handling and disposing of waste materials and substances.
			5.6	Describe the maintenance authorisation procedures as specified by the manufacturer and the organisation (applicable to customer requirements).
			5.7	Outline the organisation's reporting lines and communication procedures associated with maintaining plant and equipment.

Title:	Carrying out basic maintenance on installed plant and equipment in the workplace		
Additional inform	tion 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 Installations (Construction):		
	One of the following endorsements required:		
	Tower crane — self erect Tower crane — assisted erect		
Sector subject area	05.2 Building and Construction		
Availability for use	Shared unit		
Unit guided learni	g hours 27		

Title:	Inspecting pla	nt or machinery for operational serviceability in the workplace		
Unit Number: D/615/1893 Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
serviceability.		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, workshop manuals, technical service bulletins, parts manuals, manufacturers' information and current regulations associated with the inspection, examination and tes of plant and machinery. 		
2 Know how to comply with relevant legislation and official guidance when inspecting plant or machinery for operational serviceability.		 2.1 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 mechanicalifting. 		
		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.		
3 Maintain safe working pract inspecting pla machinery for serviceability.	ices when int or operational	3.1 Use health and safety control equipment and access equipment (if applicable) safely to carry out the activity in accordance with current legislation and organisationa requirements when inspecting plant or machinery for operational serviceability.		
		3.2 Comply with information relating to specific risks to health when inspecting plant or machinery for operational serviceability.		

Tit	le: Inspecting	lant or machinery for operational serviceability in the workplace		
	arning outcomes	Assessment criteria		
The	e learner will be able to:	The learner can:		
3	Continued	 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating inspecting plant or machinery for operational serviceability 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 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 hazards.		
4	Select the required quant and quality of resources f the methods of work to			
	inspect plant or machinery for operational serviceability.	 4.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to: consumables inspection equipment fixings hand tools, portable powered tools, specialist tools and equipment. 		
		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 calculate quantity, length, area and wastage associated with the method/procedure to inspect plant and machinery for operational serviceability.		

Tit	le:	Inspecting plant or machinery for operational serviceability in the workplace			
	Learning outcomes		Assessment criteria		
The	The learner will be able to:		The le	arner can:	
5	to the work and surrounding area when inspecting plant or machinery for operational		5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
			5.2	Minimise damage and maintain a clean work space.	
	serviceability.		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 inspecting plant or machinery for operational serviceability.		6.1	Demonstrate completion of the work within the allocated time.	
			6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.	
7	7 Comply with the given contract information to inspect plant or machinery for operational serviceability to the required specification.		7.1	Demonstrate the following work skills when inspecting plant or machinery for operational serviceability: — inspecting, checking, recording and reporting.	
			7.2	Complete the following inspections to given working instructions: - routine checks, daily, weekly - periodic e.g. monthly, annual, number, hours run - pre-use, delivery - post-use, return, off hire.	
			7.3	Record and report results and findings of inspection using the appropriate method, in accordance with given working instructions.	
			7.4	Safely use and handle materials, hand tools, specialist tools, portable power tools and ancillary equipment.	
			7.5	Safely store the materials, tools and equipment used when inspecting plant or machinery for operational serviceability.	

Title:	Inspecting plant or machinery for operational serviceability in the workplace			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
7 Continued		 7.6 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to: identify inspection criteria conduct inspections, daily/weekly, periodic (monthly, annual, number and hours run), pre-use and post-use and returned items identify the difference between test, inspection and thorough examination check the calibration of inspection tools and equipment use specialist inspection equipment and test and diagnostic aids identify deterioration, damage, excess wear and leaks identify ron-critical defects classify the serviceability of plant and machinery consider plant and machinery life expectancy report findings use hand tools, portable power tools, specialist tools and equipment work at height use access equipment complete and maintain records. 7.7 Describe the needs of other occupations and how to effectively communicate within a team inspecting plant or machinery for operational serviceability. 		
		7.8 Describe how to maintain the tools and equipment used when inspecting plant or machinery for operational serviceability.		

Title:	Inspecting plant or machinery for operational serviceability in the workplace				
Additional inform	al information about this unit				
Assessment Guidance		This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.			
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.			
		Workplace evidence of skills cannot be simulated.			
		This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.			
		ProQual Level 2 NVQ Diploma in Plant Installations (Construction):			
		One of the following endorsements required:			
		Hoist rack and pinion goods			
		Hoist passenger/goods combined			
		Hoist rope operated goods			
		Hoist transport platform			
		Tower crane – self erect			
		Tower crane – assisted erect			
Sector Subject Are	eas	5.2 Building and Construction			
Availability for use		Shared unit			
Unit guided learning hours		110			

Title:	Diagnosing fau	Diagnosing faults in plant or machinery systems or components in the workplace			
Unit Number: H/615/1894					
Learning outcomes The learner will be able to:			s ment criteria arner can:		
Interpret the given information relating to the work and resources when diagnosing faults in plant or machinery systems or		1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments, workshop manuals, technical service bulletins, parts manuals and manufacturers' information.		
components.		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 associated with diagnosing faults in plant or machinery systems or components.		
2 Know how to comply with relevant legislation and official guidance when diagnosing faults in plant or machinery systems or components.		2.1	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.		
		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.		
working pract diagnosing fa	working practices when diagnosing faults in plant or machinery systems or		Use health and safety control equipment and access equipment (if applicable) safely to carry out the activity in accordance with current legislation and organisational requirements when diagnosing faults in plant or machinery systems or components.		
		3.2	Comply with information relating to specific risks to health when diagnosing faults in plant or machinery systems or components.		

Title:	Diagnosing faults in plant or machinery systems or components in the workplace			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
3 continued		3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to diagnosing faults in plant or machinery systems or components, 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 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 hazards.	
and quality of the methods		4.1	Select resources associated with own work in relation to materials, components, fixings, tools, equipment and consumables.	
diagnose fault machinery sys components.		4.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to: - hand tools, portable powered tools, specialist diagnostic and testing tools and ancillary equipment.	
		4.3	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.	
		4.5	Describe any potential hazards associated with the resources and methods of work.	
		4.6	Describe how to calculate quantity, length, area, volume and wastage associated with the method/procedure to diagnose faults in plant and machinery systems and components.	

Tit	le:	Diagnosing faults in plant or machinery systems or components in the workplace			
Learning outcomes The learner will be able to:			Assessment criteria The learner can:		
5 Minimise the risk of damage to the work and surrounding area when		5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.		
	diagnosing faults in plant or machinery systems or		5.2	Minimise damage and maintain a clean work space.	
	components.		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	Complete the the allocated t	time when	6.1	Demonstrate completion of the work within the allocated time.	
	diagnosing faults in plant or machinery systems or components.		6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.	
7	Comply with t contract information diagnose fault machinery systom components to specification.	mation to s in plant or	7.1	Demonstrate the following work skills when diagnosing faults in plant or machinery systems or components: - selecting, investigating, interrogating, observing, listening, smelling, feeling, applying, identifying, collecting, analysing, interpreting, diagnosing and reporting.	
			7.2	Identify and diagnose functional and operational faults in plant or machinery, systems or components to given working instructions for four of the following: - power unit - transmission - steering - hydraulics - pump - brakes - pneumatics - electrical - electronic - operating ancillaries or attachments.	

Title:	Diagnosing faults in plant or machinery systems or components in the workplace			
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
7 Continued		7.3	Complete functional, operational and safety checks on plant or machinery systems or components, to given working instructions.	
		7.4	Complete and maintain records when diagnosing faults in plant or machinery systems or components.	
		7.5	Safely use and handle materials, hand tools, portable power tools, specialist diagnostic and testing tools and ancillary equipment.	
		7.6	Safely store the materials, tools and equipment used when diagnosing faults in plant or machinery systems or components.	
		7.7	Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to: — collect and collate information from operators and users on symptoms and problems — consider information from existing records — analyse information to define the diagnosis start point — investigate and establish the most likely causes of the faults — observe the operational functions of plant and machinery components and systems — interpret sounds and smells — collect and analyse data from diagnostic aids; multimeters, pressure and flow gauges, computers, test lamps, portable appliance testing equipment and other specialist tools and equipment — identify faults and determine the cause — determine and suggest repair requirements for faults in power units, transmissions, steering, hydraulic systems, pumps, brakes, pneumatic systems, electrical systems, electronic components and operating ancillaries and attachments — categorise faults by type (continual, intermittent or breakdown) — apply situational awareness to select routine and nonroutine fault diagnosis procedures — determine the implications of faults for other work and the operational safety of the plant or machinery — report, mark, tag and place notices on plant and machinery systems and components deemed hazardous — use hand tools, specialist diagnostic and testing tools, portable power tools and equipment — work at height — use access equipment — complete and maintain records.	

Title:	Diagnosing faults in plant or machinery systems or components in the workplace		
Learning outcomes The learner will be able to:			earner can:
7 continued		7.8	Describe the needs of other occupations and how to effectively communicate within a team when diagnosing faults in plant or machinery systems or components.
		7.9	Describe how to maintain the tools and equipment used when diagnosing faults in plant or machinery systems or components.

Title:	Diagnosing faults in plant or machinery systems or components in the workplace				
Additional inform	Additional information about this unit				
Assessment Guidance		This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.			
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.			
		Workplace evidence of skills cannot be simulated.			
		This unit must be assessed against the endorsements detailed within the relevant NVQ structure.			
		ProQual Level 2 NVQ Diploma in Plant Installations (Construction):			
		Four of the following endorsements required:			
		Power unit			
		Transmission			
		Steering			
		Hydraulic			
		Pump			
		Brake			
		Pneumatic			
		Electrical			
		Electronic Operating ancillaries and attachments			
		Operating andmanes and attachments			
Sector Subject Are	eas	5.2 Building and Construction			
Availability for use	e	Shared unit			
Unit guided learning hours		110			

Title:	Handing over plant or machinery to the control of others in the workplace		
Unit Number: K/615/1895			
Learning outcomes The learner will be able to:			ssment criteria Parner can:
1 Interpret the given information relating to the work and resources when handing over plant or		1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information.
_	the control of	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
		1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
			Describe different types of information, their source and how they are interpreted in relation to: - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations associated with the operation and use of plant and machinery.
relevant legi official guida handing ove	relevant legislation and official guidance when handing over plant or machinery to the control of		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.
			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.
working prac handing ove		3.1	Use health and safety control equipment and access equipment (if applicable) safely to carry out the activity in accordance with current legislation and organisational requirements when handing over plant or machinery to the control of others.
			Comply with information relating to specific risks to health when handing over plant or machinery to the control of others.

Title: Handing over	Handing over plant or machinery to the control of others in the workplace		
Learning outcomes The learner will be able to:	Assessment criteria The learner can:		
3 continued	3.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to handing over plant or machinery to the control of others 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 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 hazards.		
4 Select the required quantit and quality of resources fo			
the methods of work to hand over plant or machinery to the control o others.	 4.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to: consumables literature, forms and documents hand tools, portable powered tools and equipment. 		
	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 calculate quantity, length, area and wastage associated with the method/procedure to hand over plant and machinery to others.		

Tit	le:	Handing over	olant o	r machinery to the control of others in the workplace
	Learning outcomes The learner will be able to:			ssment criteria Parner can:
5	to the work and surrounding area when		5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	handing over p		5.2	Minimise damage and maintain a clean work space.
	others.		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	the allocated time when		6.1	Demonstrate completion of the work within the allocated time.
	handing over plant or machinery to the control of others.	6.2	Describe the purpose of the work programme and explain why deadlines should be kept in relation to: - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.	
7	contract information to hand over plant or machinery to the control of others to the required		7.1	Demonstrate the following work skills when handing over plant or machinery to the control of others: — liaising, explaining, presenting, demonstrating, instructing, confirming, communicating and assessing.
	specification.	7.2	Explain and demonstrate the operation of plant or machinery to given working instructions in order to hand over control to others.	
		7.3	Complete and maintain records when handing over plant or machinery to the control of others.	
		7.4	Safely use and handle materials, hand tools, portable power tools and ancillary equipment.	
			7.5	Safely store the materials, tools and equipment used when handing over plant or machinery to the control of others.

Title:	Handing over plant or machinery to the control of others in the workplace	
Learning outcomes The learner will be able to:		Assessment criteria The learner can:
7 continued		 7.6 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to: liaise with customers, hirers, colleagues and end users clearly define the moment of transferred responsibility assess and confirm the condition of plant and machinery confirm the suitability of the handover environment prepare plant or machinery for explanation and demonstration instruct users and operators in the operation, safety and emergency requirements demonstrate the operation of plant and machinery explain statutory requirements, inspection, maintenance, report of thorough examination, tests and certification present and explain documentation: safety literature, operating instructions and operator forms complete and register the handover: forms, checklists, confirmation, acceptance and receipt forms explain the availability of technical support, guidance, information, advice, breakdown, call out, guarantees, warranties and replacement communicate in a way that maintains goodwill use hand tools, portable power tools and equipment work at height use access equipment complete and maintain records.
		7.7 Describe the needs of other occupations and how to effectively communicate within a team when handing over plant or machinery to the control of others.
		7.8 Describe how to maintain the tools and equipment used when handing over plant or machinery to the control of others.

Title:	Handing over plant or machinery to the control of others in the workplace			
Additional information about this unit				
Assessment Guidance		This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.		
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.		
		Workplace evidence of skills cannot be simulated.		
		This unit must be assessed against the endorsements detailed within the relevant NVQ structure.		
		ProQual Level 2 NVQ Diploma in Plant Installations (Construction):		
		One of the following endorsements required:		
		Hoist rack and pinion goods		
		Hoist passenger/goods combined		
		Hoist rope operated goods		
		Hoist transport platform		
		Tower crane – self erect		
		Tower crane – assisted erect		
Sector Subject Are	ea	5.2 Building and Construction		
Availability for use		Shared unit		
Unit guided learning hours		90		

Title:	Dismantling pre-installed tower cranes in the workplace		
Level:	2		
Learning outcomes The learner will be able to:			sment criteria arner can:
Work safely at all times when dismantling installed tower cranes.		1.1	Comply with current health and safety legislation and other relevant regulations and guidelines applicable to the dismantling of installed tower cranes.
		1.2	Use personal protective equipment (PPE) relevant to tower crane dismantling activities.
		1.3	Describe health and safety legislation, regulations, safe working practices and procedures and company health and safety policies and workplace procedures that apply when dismantling installed tower cranes.
		1.4	State health and safety issues and describe reasons for possible injuries when dismantling installed tower cranes at height, in confined spaces and below ground level.
Carry out pre activities in o dismantle pre	rder to e-installed	2.1	Identify and extract applicable information from relevant information sources when dismantling installed tower cranes.
tower cranes components.	and/or	2.2	Establish and, where appropriate, mark components to aid re-assembly.
		2.3	Ensure that any stored energy or substances are released safely and correctly.
		2.4	Follow relevant dismantling instructions, disassembly drawings and any other relevant specifications to aid dismantling.
		2.5	Describe different sources of information and technical literature to aid the dismantling of tower cranes and/or components.
		2.6	Make all isolations and disconnections to installed tower cranes in line with approved procedures.
		2.7	Give reasons for the importance of dismantling installed tower cranes in the correct sequence and explain the possible consequences should procedures not be followed.

Title:	Dismantling p	Dismantling pre-installed tower cranes in the workplace	
Learning outcomes The learner will be able to:			earner can:
3 Dismantle a range of relevant pre-installed tower cranes in the workplace		3.1	Carry out dismantling operations on installed tower cranes, relevant to the occupational area on sites and/or client's premises, whilst conforming to given level of responsibility.
following work.	safe systems of	3.2	Disassemble installed tower cranes using correct tools and techniques and following clearly defined procedures.
		3.3	Describe the type or types of approved dismantling methods, techniques, procedures, and tools and equipment needed to dismantle installed tower cranes relevant to the occupational area.
			Take suitable precautions to prevent damage to components, tools and equipment during dismantling operations.
			Outline the safe manual handling methods, safe removal procedures of components, and safe use requirements of lifting equipment during dismantling operations on installed tower cranes.
			Describe ways of protecting tools, accessories and equipment when dismantling relevant installed tower cranes, how to use lifting equipment and lifting aids, and how to store and keep secure specialist tools and equipment.
			Describe the possible types of damage that can occur to tower cranes and their components, when dismantling installed units.
compone		4.1	Label and store parts, components and sub-assemblies from dismantled tower cranes for reuse in approved locations.
	dismantled tower cranes for disposal and/or reuse.	4.2	Discard unwanted dismantled components, parts, sub- assemblies or substances in accordance with approved procedures.
			State the organisational instructions and procedures for dealing with damages and defects, and the disposing of hazardous and non-hazardous waste substances.
communio when disr	5 Comply with organisational communication procedures when dismantling installed	5.1	Demonstrate dealing promptly and effectively with problems within given control and report those that cannot be solved to other designated personnel.
tower cra	tower cranes.		State the organisations reporting lines and procedures associated with the dismantling of installed tower cranes.

Title:	Dismantling pre-installed tower cranes in the workplace				
Additional inform	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 Installations (Construction): One of the following endorsements required: Tower crane — self erect Tower crane — assisted erect			
Contains little		OF 2 Duilding and County sting			
Sector subject are		05.2 Building and Construction			
Availability for use		Shared unit			
Unit guided learning hours		27			

Title:	Preparing and operating tower cranes during installation activities in the workplace			
Unit Number: T/615/1897				
Learning outcomes The learner will be able to:			ssment criteria arner can:	
Interpret the given information relating to the use of tower cranes during installation activities.		1.1	Interpret and extract information from drawings, specifications, schedules and manufacturers' information.	
iiistallation at	ctivities.	1.2	Comply with information and/or instructions derived from risk assessments and method statement.	
		1.3	State 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, manufacturers' information, method statements, risk assessments and guidance applicable to tower crane operations.	
2 Know how to comply with relevant legislation and official guidance when operating tower cranes during installation activities.		2.1	Describe their responsibilities under current legislation and official guidance whilst working: — in the workplace, below ground level, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.	
			Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
		2.3	State what the accident reporting procedures are and who is responsible for making reports.	
practices whe tower cranes	3 Maintain safe working practices when operating tower cranes during installation activities.		Use personal protective equipment (PPE) safely and carry out the activity in accordance with legislation and organisational requirements.	
instanduon de			Explain why and when personal protective equipment (PPE) should be used, relating to tower crane installation operations, and the types, purpose and limitations of each types	
		3.3	State 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 hazards.	

Tit	le:	Preparing and operating tower cranes during installation activities in the workplace		
Learning outcomes The learner will be able to:			arner can:	
4 Comply with the given contract information to prepare and operate tower cranes during installation		4.1	Demonstrate the following work skills when preparing and operating tower cranes during installation activities: - checking, adjusting, operating, communicating, manoeuvring and positioning.	
	activities to the required specification.	e requirea	4.2	Prepare and operate tower cranes in the workplace to given working instructions whilst engaging in installation activities.
			4.3	Describe how to apply safe work practices, the typical hazards, follow procedures, how problems are reported and the authority needed to rectify, to: - identify the characteristics of the tower crane that is to be installed, erected, altered or dismantled - carry out pre-use checks - prepare, set up, check and adjust for operational requirements, safety and security - carry out functional and operational checks - confirm tower crane and equipment stability and security - shut down and secure the tower crane.
			4.4	Use ancillary equipment and machinery.
			4.5	State the needs of other occupations and how to communicate within a team when preparing for and operating tower cranes during installation activities.

Title:	Preparing and operating tower cranes during installation activities in the workplace		
Additional inform	nation about this	unit	
Assessment Guida	ance	This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment. Assessors for this unit must have verifiable, current industry	
		experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.	
		Workplace evidence of skills cannot be simulated.	
		This unit must be assessed against the endorsements detailed within the relevant NVQ structure.	
		ProQual Level 2 NVQ Diploma in Plant Installations (Construction):	
		One of the following endorsements required:	
		Tower crane – self erect	
		Tower crane – assisted erect	
Sector Subject Are	ea	05.2 Building and Construction	
Availability for use	e	Shared unit	
Unit guided learning hours		80	

Title:	Preparing ar	nd operating hoists to lift and transfer loads in the workplace
Unit Number: Y/508/6483		
Learning outcomes The learner will be able to:		Assessment criteria The learner can:
Interpret the given information relating to the preparation and use of hoists to lift and transfer loads.		1.1 Interpret and extract relevant information from drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information.
		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 hoists to lift and transfer loads.
2 Organise with others the sequence and operation in which lifting and transferring operations using hoist are to be carried out.		2.1 Organise the work according to given information or instructions.
		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 hoist operations.
3 Know how to comply with relevant legislation and official guidance when lifting and transferring loads using hoists.		 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 ar	nd operating hoists 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 and transferring operations using hoists.		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 hoist operations.
		 4.2 Demonstrate compliance with given information and relevant legislation when carrying out hoist 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 hoist use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: collective protective measures personal protective equipment (PPE) respiratory protective equipment (RPE) local exhaust ventilation (LEV).
		4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.
		4.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
5 Request and select the required quantity and of resources to prepare	y and quality repare for ing and	5.1 Request and select resources associated with hoists in relation to consumables, materials, tools, ancillary equipment and/or accessories.
and carry out liftin transferring opera hoists.		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 an	ıd oper	rating hoists to lift and transfer loads in the workplace
Learning outcomes The learner will be able to:		Assessment criteria The learner can:		
5 Continued		5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	
		5.5	Describe any potential hazards associated with the resources and method of work.	
		5.6	Describe how to identify weight, quantity, length and area associated with the method/procedures to carry out lifting and transferring operations with hoists.	
6	to the work and surrour area when preparing to	rrounding ng 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	allocated time who	ete the work within the ed time when preparing lifting and transferring	7.1	Demonstrate completion of the work within the allocated time.
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	nd operating hoists to lift and transfer loads in the workplace
Learning outcomes		Assessment criteria
The learner will be able t	o:	The learner can:
8 Comply with the given contract information to lift and transfer loads using hoists to the required specification.		 8.1 Demonstrate the following work skills when preparing for, lifting and transferring loads using hoists: 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 hoists to lift and transfer a variety of loads and personnel (where applicable), at various levels or heights, to given working instructions.
		8.4 Shut down and secure hoists.
		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 hoist for the lifting 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 load for lifting and transferring - recognise and determine when specific skills and knowledge are required and report accordingly - secure and balance loads for lifting - lift 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 isolate the hoist - 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 hoists to lift and transfer loads in the workplace		
Additional information about this unit			
Assessment Guidance		This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.	
		Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.	
		Workplace evidence of skills cannot be simulated.	
		This unit must be assessed against the endorsements detailed within the NVQ Structure.	
		ProQual Level 2 NVQ Diploma in Plant Installations (Construction);	
		One of the following endorsements required:	
		Hoist rack and pinion goods Hoist passenger/goods combined Hoist rope operated goods Hoist transport platform	
Sector subject are	ea	5.2 Building and Construction	
Availability for use	е	Shared unit	
Unit guided learning hours		40	



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