

**EPIC TRAINING AND
CONSULTING SERVICES LIMITED**
on behalf of PROSKILLS

**PLANT OPERATIONS
(Extractives)**

**National Occupational Standards
and
Recommended Qualification
Structures**

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Information notes

This document contains the National Occupational Standards (NOS), together with the recommended qualification structures for National and Scottish Vocational Qualifications (Level 2) in Plant Operations (Extractives). These are the Plant Operations NOS developed by ConstructionSkills, as applicable to the Extractive and Minerals Processing Industries.

These NOS were developed and approved in 2005, and replace the former NOS and awards, Specialised Plant and Machinery Operations.

The Extractives Industry

The extractives industry is concerned with the extraction (by quarrying, mining or dredging) and processing of all solid minerals products, which includes: the extraction of aggregates, slate, dimensional stone, gypsum, china clay, ball clay, silica and industrial sands, materials for the manufacture of cement, and other solid minerals; the processing of blast furnace, steel and other slags; the processing of construction and demolition waste and other materials to replace or be included in primary solid mineral; the production and laying of asphalt; the production of ready mixed concrete, mortar and similar products; other processing of rocks and minerals; and other ancillary operations of these activities.

National Vocational Qualifications (NVQ) and Scottish Vocational Qualifications (SVQ)

A National Vocational Qualification or a Scottish Vocational Qualification is a measure of an individual's capability to carry out a range of work to the performance criteria which have been agreed by industry. The criteria are expressed as **National Occupational Standards (NOS)**

Such qualifications are accessible to everyone. Traditional barriers such as age, the length and type of training, and where and how skills have been acquired are removed. The only constraint remaining is compliance with statutory regulations and legal requirements, e.g. some tasks can only be performed by individuals above a minimum age.

Sector Skills Councils (SSC)

The overall objective for an SSC is to provide strategic leadership and targeted action to meet current and emerging skills and productivity needs in its sector. As a result of an SSC's work, employers and government will expect to see the adoption of better workforce development practices, by an increasing number of employers; more training for a wider group of people in the sector's workforce and better quality training for people in the sector. These will contribute to increased productivity, improved business performance, greater social inclusion or better public services.

A fundamental function of an SSC to support this objective is the development of National Occupational Standards (NOS) and the structures of NVQs/SVQs based upon them. In this capacity the SSC is known and recognised as the Standards Setting Body (SSB).

The function of a SSB is to:

- define the range of occupations for which it has a responsibility
- establish occupational standards of competence for each occupation
- review existing vocational qualifications
- identify appropriate arrangements for awarding NVQs or SVQs
- recommend the qualification structures
- recommend the assessment strategy

ConstructionSkills has been recognised as the SSC and the SSB for the construction industry.

Proskills has been recognised as the SSC and the SSB for the processing and manufacturing industries, which includes the extractives industries. EPIC Training and Consulting Services Limited acted as the SSB for extractives until Proskills was fully established.

The Development of Plant Operations NOS and NVQs/SVQs

As a SSB, ConstructionSkills carried out a functional analysis of the craft and operative sector of the construction industry. This involved identifying the key functions within an occupational activity and formulating these as national occupational standards.

A functional map was produced from this analysis to act as a reference for identifying these standards.

ConstructionSkills consulted widely with other SSCs and SSBs with interests in mobile plant, including EPIC Training and Consulting Services Limited on behalf of Proskills, and with employers in these industries. The following NOS and NVQ/SVQ structures are the outcome. They are fully endorsed; this version for the Extractives industry being produced with the approval of ConstructionSkills.

Proskills and EPIC Training and Consulting Services Limited wish to record their appreciation of the work carried out by ConstructionSkills and their co-operation in these matters.

Occupational standards and units of competence

National occupational standards can form units of competence, with or without elements. An NVQ or SVQ is made up of a number of units of competence which can be accumulated over any period of time and in any sequence. A unit of competence is of sufficient size and scope to be recognised in industry and have value in employment. It is the smallest part of an NVQ/SVQ that can be accredited and is transferable to other appropriate NVQ/SVQs.

ConstructionSkills has developed National Occupational Standards that have the following features:

- the unit title (the standard)
- a unit description

- performance criteria
- scope of performance
- knowledge and understanding
- scope of knowledge and understanding

Accrediting bodies

The Qualification and Curriculum Authority (QCA), the Scottish Qualifications Authority (SQA) and the Qualifications Curriculum and Assessment Authority for Wales (ACCAC) are the accrediting bodies for the construction industry's national occupational standards and qualifications.

Key/core skill signposting

A signposting exercise has been carried out to identify the key skills (core skills in Scotland) contained within the NVQ/SVQ units of competence. Summary sheets resulting from this exercise are included.

Guidance notes

ConstructionSkills as a Standard Setting Body (SSB) has produced these guidance notes to inform Awarding Bodies (ABs) offering qualifications using their units and framework structures, how they should approach the following issues. This is endorsed by Proskills and EPIC Training and Consulting Services Limited.

Awarding Body guidance

Approval of Awarding Bodies

An Awarding Body must be approved by QCA or SQA for the purpose of awarding NVQs or SVQs. It must establish with QCA or SQA how it will meet the contractual obligation which this imposes.

To be approved, awarding bodies must take responsibility for:

- assessment
- the verification of assessments
- the issue of certificates
- the maintenance of a record of certification

Developing NVQ/SVQs

The Awarding Body will use the following occupational standards and qualification framework structures developed or identified by ConstructionSkills and endorsed by EPIC Training and Consulting Services Limited (on behalf of Proskills), fully adopting the requirements of the Assessment Strategy for the Extractive and Minerals Processing Industries (available on request from EPIC) and produce the following to meet the needs of industry:

- assessment guidelines
- assessment centre approval criteria

Recording and endorsing qualifications

Awarding Bodies offering qualifications based on the standards and framework structure contained in the national occupational standards must be able to record and issue certificates, showing the following details, for the qualification, occupational routes or units they wish to offer:

- A complete qualification
- An occupational route within the qualification
- An occupational route endorsed to show the industrial area
- Units endorsed to show the occupational area
- Units endorsed to show the work carried out and/or the machinery/equipment used to obtain the unit
- Where complete qualifications have more than one route, to be able to issue endorsements to the qualifications if a candidate proves competent in more than one route

Referencing of units

Awarding Bodies offering qualifications based on these NOS and framework structures must make reference to the Extractives and ConstructionSkills unit numbering systems in their own identification methodology, to show the original source of the unit.

Extractive unit reference numbers are PL1 to PL22

ConstructionSkills reference numbers are prefixed VR

Recommended qualification structure:

NVQ/SVQ Plant Operations (Extractives) Level 2

MANDATORY CORE UNITS (all option routes)

- PL1 (VR 01) Conform to General Workplace Safety
- PL2 (VR 02) Conform to Efficient Work Practices
- PL4 (VR 386) Prepare Plant or Machinery for Operational Performance

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Plant Operator Route (one unit from the following required)

- PL5 (VR 387) Operate Plant or Machinery to Lift and Transfer Loads
- PL6 (VR 388) Operate Plant or Machinery to Extract
- PL7 (VR 389) Operate Plant or Machinery to Excavate
- PL8 (VR 390) Operate Plant or Machinery to Construct and Form
- PL9 (VR 391) Operate Plant or Machinery to Receive and Transport Loads
- PL10 (VR 392) Operate Plant or Machinery for Accessing
- PL11 (VR 393) Operate Plant or Machinery to Lay and Distribute
- PL12 (VR 394) Operate Plant or Machinery to Compact
- PL13 (VR 395) Operate Plant or Machinery to Process

Slinger Signaller/Loader Securer Route (both units required)

- PL14 (VR 396) Direct and Guide the Movement of Plant or Machinery
- PL15 (VR 397) Arrange and Secure Loads

Road Rail Route (One unit from the Plant Operator route plus the following unit required)

- PL16 (VR 398) Operate Road Rail Plant

Attachments Route (One unit from the Plant Operator route plus the following unit required)

- PL17 (VR 399) Operate Ancillary Equipment

ADDITIONAL UNITS (not compulsory)

- PL3 (VR 03) Move and Handle Resources
- PL18 (VR 400) Operate Specialised Powered Tools and Equipment
- PL19 (VR 401) Set Out Secondary Dimensional Work Control
- PL20 (VR 402) Slings and Signalling the Movement of Loads
- PL21 (VR 403) Plant Operations from a Barge
- PL22 (VR 404) Erect and Dismantle Plant (Cranes and Rigs)

Note: Qualifications must be endorsed to show achievement in the extractives industry. Full NVQ/SVQ and unit certificates, with the exception of units PL1, PL2, and PL3, must be endorsed to show specific types of resources and/or activities that relate to the unit.

Unit endorsements for Plant Operations:

Listed below are the endorsements that can apply for the following units (see the individual units for further details on the level of endorsement or contact the Standard Setting Body):

Unit No.	Endorsement
PL4	Lifting plant or machines Transferring plant or machines Extracting plant or machines Excavating plant or machines Construction and formation plant or machines Receiving or transporting plant or machines Accessing plant or machines Laying or distributing plant or machines Compacting plant or machines Processing plant or machines
PL5	Crawler crane up to 10 tonnes Crawler crane all sizes Tower crane trolley jib Tower crane luffing jib Rough terrain forklift/masted truck Forklift sideloader Industrial counterbalanced forklift Telescopic handler industrial telescopic Telescopic handler up to 9 metres Telescopic handler all sizes Telescopic handler all sizes excluding 360° Telescopic handler all sizes including 360° Reach truck Hoist rack and pinion goods Hoist passenger/goods combined Hoist rope operated goods Hoist transport platform Crawler tractor side boom Knuckle boom crane Lorry loader Skip handler Mobile crane blocked duties Mobile crane pick and carry duties only Mobile crane all duties Pedestrian operated tower crane Pedestrian operated tower crane inclined jib Overhead crane Excavator crane Container handler Self-propelled motorised trailer

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Unit No.	Endorsement
PL6	Dragline Excavator 180° crawler and wheeled below 5 tonne Excavator 180° crawler and wheeled above 5 tonne Wheeled loading shovel Tracked loading shovel Skid steer loader Motorised scraper Trencher Loader compressor Excavator 360° below 10 tonne tracked Excavator 360° below 10 tonne wheeled Excavator 360° above 10 tonne tracked Excavator 360° above 10 tonne wheeled
PL7	Dragline Excavator 180° crawler and wheeled below 5 tonne Excavator 180° crawler and wheeled above 5 tonne Crawler tractor/dozer Trencher Excavator 360° below 10 tonne tracked Excavator 360° below 10 tonne wheeled Excavator 360° above 10 tonne tracked Excavator 360° above 10 tonne wheeled
PL8	Grader Crawler tractor dozer.
PL9	Truck mounted boom concrete pump Forward tipping dumper wheeled Forward tipping dumper tracked Agricultural tractor Trailer mounted concrete pump Dump truck – articulated chassis up to 15 tonne Dump truck – articulated chassis all sizes Dump truck – rigid chassis up to 15 tonne Dump truck – rigid chassis up to 50 tonne Dump truck – rigid chassis all sizes wheeled Dump truck – rigid chassis tracked Bowser
PL10	Mobile elevated working platform scissor Mobile elevated working platform boom vehicle mounted Mobile elevated working platform boom self propelled Mobile elevated working platform mast climber
PL11	Motorised scraper Soil stabiliser
PL12	Ride-on roller Soil compactor Landfill compactor

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Unit No.	Endorsement
PL13	Crusher Screener Batching plant <i>Note; this unit applies to small highly mobile plant, regularly moving between places and sites, such as on a building site, or a truly mobile plant for example screening plantings on a road resurfacing contract as attached to a planer. This unit does not apply to such plant in quarries, mines or other extractives sites, even if the crusher or screens are capable of being moved. To demonstrate competence in these situations the correct NVQ/SVQ is Processing Operations for the Extractive and Minerals Processing Industries</i>
PL14	Slinger/signaller Banksperson Loader/securer
PL15	Slinger/signaller Loader/securer
PL16	Road rail – forward tipping dumper Road rail – MEWP scissor Road rail – MEWP boom Road rail – crawler tractor/dozer Road rail – knuckle boom crane Road rail – dump truck – articulated chassis Road rail – dump truck – rigid chassis Road rail – excavator 360° wheeled Road rail – excavator 360° tracked Road rail – excavator crane Road rail – crane Road rail – rough terrain forklift truck Road rail – telescopic handler Road rail – agricultural tractor
PL17	Rail thimble Rail flail Rail ballast brush Rail ballast/material movement vacuum unit Rail hydraulic rail beam Rail hydraulic sleeper grab Rail trailer Rail tamper Rail vacuum lifter Rail grapple/log grab Auger Sweeper Pecker/hammer Mower Grab
PL18	Generators Pumps Pedestrian operated plant or machines Mixers Compressors Self powered tools

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Unit No.	Endorsement
PL19	Lines Levels Depths Areas Heights Angles
PL22	Mobile crane Crawler crane Tower crane Overhead crane Piling rig Demolition rig Drilling rig

Note: Where industry requests an Awarding Body to further endorse a unit, the Awarding Body must first seek approval from the Standards Setting Body to ensure the endorsement is appropriate to the unit.

UNIT PL1 Conform to General Workplace Safety

ConstructionSkills Unit VR01

Description:

This unit, in the context of your occupation and work environment, is about:

- awareness of relevant current statutory requirements and official guidance
- personal responsibilities related to workforce safety
- wearing appropriate personal protective equipment (PPE)
- compliance with warning/safety signs
- personal behaviour in the workplace
- security in the workplace

<u>Performance Criteria</u>	<u>Scope of Performance</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>1 Identify hazards associated with the workplace and record and report in accordance with organisational procedure.</p>	<p>Hazards, associated with the workplace and occupations at work, are recorded and/or reported.</p>
<p>2 Comply with all workplace safety legislation requirements at all times.</p>	<p>Safe use of general personal protective equipment (PPE) when in the work environment, in accordance with legislation and/or organisational requirements.</p> <p>Adherence to statutory requirements and/or safety notices and warning signs displayed in the workplace.</p> <p><i>Safe use of fire extinguishers, as appropriate to the fire.</i></p>
<p>3 Comply with and maintain all organisational security arrangements and approved procedures.</p>	<p>Organisational procedures for maintaining the security of the workplace:</p> <ul style="list-style-type: none"> - during the working day - on completion of the day's work - from unauthorised personnel (other operatives and/or the general public) - from theft.
<p>4 Comply with all emergency procedures in accordance with organisational policy.</p>	<p><i>Organisational procedures in case of accident and/or fire.</i></p>

Unit PL1 Conform to General Workplace Safety

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Identification of hazards</i></p> <p>The hazards associated with the occupational area.</p> <p>The method of reporting hazards in the workplace.</p> <p><i>Performance Criteria 2</i> <i>Workplace safety</i></p> <p>What safety legislation notices are relevant to the occupational area.</p> <p>Why and when personal protective equipment (PPE) should be used.</p> <p><i>Performance Criteria 3</i> <i>Security arrangements</i></p> <p>How security arrangements are implemented in the workplace.</p> <p><i>Performance Criteria 4</i> <i>Emergency procedures</i></p> <p>What the organisational emergency procedures are.</p> <p>What the types of fire extinguishers are and how they are used.</p>	<p>Emergency procedures In accordance with organisational requirements:</p> <ul style="list-style-type: none"> – accidents and emergencies associated with the type of work being undertaken and the work environment. <p>Fire extinguishers Water, CO₂, foam, powder, vaporising liquid and their uses.</p> <p>Hazards Associated with the occupational area:</p> <ul style="list-style-type: none"> – resources, workplace, environment, substances, equipment, obstructions, storage, services and work activities. <p>Notices Statutory requirements and/or official guidance for the occupation and the work area.</p> <p>Personal protective equipment (PPE) As required for the general work environment:</p> <ul style="list-style-type: none"> – e.g. helmet, ear defenders, overalls, safety footwear and high visibility vests/jackets. <p>Reporting Organisational recording procedures and statutory requirements.</p> <p>Security Organisational procedures relating to the general public, site personnel and resources.</p>

Unit PL2 Conform to Efficient Work Practices

ConstructionSkills Unit VR02

Description:

This unit, in the context of your occupation and work environment, is about:

- interpreting information
- planning and carrying out productive, efficient working practices
- working with others or as an individual

<u>Performance Criteria</u>	<u>Scope of Performance</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
1 Communicate with others to establish productive work relationships.	Communication with colleagues/clients to ensure that the work is carried out efficiently.
2 Follow organisational procedures to maintain good work relationships.	Procedures and use of resources, allocation of work and method of work. Work carried out in conjunction with others.
3 Maintain records in accordance with the organisational procedures.	Documentation required by the organisation is completed.

Unit PL2 Conform to Efficient Work Practices

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Communicate with others</i></p> <p>The methods of communication with other workplace personnel and/or client.</p> <p><i>Performance Criteria 2</i> <i>Work relationships</i></p> <p>How organisational procedures are applied to maintain good work relationships.</p> <p><i>Performance Criteria 3</i> <i>Maintain records</i></p> <p>How to maintain documentation in accordance with organisational procedures.</p>	<p>Communication Written, oral and electronic.</p> <p>Documentation Job cards, worksheets, material/resources lists and time sheets.</p> <p>Procedures Use of resources for own and other's work requirements. Allocation of appropriate work to employees. Organisation of work sequence.</p> <p>Relationships Individuals, workplace groups (client and/or operative, operative and line management, own occupation and allied occupations).</p>

Unit PL3 Move and Handle Resources

ConstructionSkills Unit VR03

Description:

This unit, in the context of your occupation and work environment, is about:

- following instructions
- adopting safe and healthy working practices
- selecting materials, components and equipment
- handling, moving and storage of materials and components by manual procedures and lifting aids

<u>Performance Criteria</u>	<u>Scope of Performance</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>1 Comply with the given information to move and store resources to maintain safe work practices.</p>	<p>Safe use of personal protective equipment (PPE) to carry out the activity, in accordance with legislation and/or organisational requirements.</p> <p>Safe use and storage of lifting aids and equipment.</p> <p>Safe use of fire extinguishers, as appropriate to the fire.</p>
<p>2 Select the resources to be stored and ensure they conform to the given information.</p>	<p>Selection of resources to be moved and/or stored:</p> <ul style="list-style-type: none"> – own work and that of the team – materials, components and fixings – tools and equipment.
<p>3 Comply with the given information to prevent damage to the product and surrounding environment.</p>	<p>Protection of the product and its surrounding area from damage.</p> <p>Disposal of waste packaging in accordance with legislation.</p> <p>Minimise damage and maintain a clean work space.</p>

Unit PL3 Move and Handle Resources

Performance Criteria

You must be able to:

Scope of Performance

Evidence must be work-based, simulation alone is only allowed where shown in ***bold italics***.

- 4 Comply with the given product information to carry out the work efficiently to the required guidance.

Work skills to:

- move, position, secure and use lifting aids and kinetic lifting techniques.

Handle and store occupational resources to meet product information and/or organisational requirements relating to:

- sheet material
 - loose material
 - bagged or wrapped material
 - fragile material
 - components
 - liquid material.
-

Unit PL3 Move and Handle Resources

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation and official guidance and how it is applied.</p> <p>The types of fire extinguishers and how and when they are used.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the reports.</p> <p>Why and when personal protective equipment (PPE) should be used.</p> <p><i>Performance Criteria 2</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with the resources and how defects should be rectified.</p> <p>How the resources should be handled and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p>	<p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with: – fires, spillages, injuries etc.</p> <p>Fire extinguishers Water, CO₂, foam, powder and their uses.</p> <p>Hazards Those identified by method of work, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Technical, product and regulatory: – oral, written, graphical presentation.</p> <p>Legislation and official guidance This relates to the operative's understanding of potential accidents and health hazards when working: – on site, below ground level, at height, with tools and equipment, with materials and manual handling.</p> <p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence for: – manual handling and storage – maintenance of lifting aids.</p> <p>Needs of other occupations associated with the resources.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p>

Unit PL3 Move and Handle Resources

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 3</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p> <p><i>Performance Criteria 4</i> <i>Comply with product information</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p>	<p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> - own authority to rectify - organisational reporting procedures. <p>Resources Types, quantity, quality and sizes of standard and specialist:</p> <ul style="list-style-type: none"> - materials, components, fixings, fittings and ancillary items - hand and/or powered tools and equipment - internally or externally supplied. <p>Security procedures Site, workshop/workplace, company and operative.</p>

Unit PL4 Prepare Plant or Machinery for Operational Performance

ConstructionSkills Unit. VR 386

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- selecting and/or using materials, components and equipment to prepare plant or machinery for operational performance
- preparing and setting up plant or machinery for operational performance

<u>Performance Criteria</u>	<u>Scope of Performance</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
1 Interpret the given operating information relating to the use of plant or machinery and confirm its relevance.	Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the work to be carried out.
2 Organise with others the sequence in which the work is to be carried out.	Organisation of own work. Communication with team members and other associated occupations about the plant or machinery operation and the work to be carried out.
3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.	Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements. Safe use and storage of plant, machinery, tools and equipment.
4 Request resources to sustain plant or machinery operations to complete the programme of work.	Follow organisational procedures for the requisition of consumables, materials and other resources.

Unit PL4 Prepare Plant or Machinery for Operational Performance

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5 Select plant or machinery resources for the methods of work and operations to be carried out.	Selection of resources associated with own work: <ul style="list-style-type: none"> – attachments, tools and ancillary equipment.
6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
7 Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: <ul style="list-style-type: none"> – fit, attach, set up, adjust, secure, check, confirm and remove. Use and maintain: <ul style="list-style-type: none"> – hand tools – ancillary equipment and/or accessories. Prepare plant or machinery for operational performance to given working instructions relating to: <ul style="list-style-type: none"> – set up – functional checks – operational performance – safety and security.
8 Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL4 Prepare Plant or Machinery for Operational Performance

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> – fires, spillages, injuries – relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing the operation of plant and machinery.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> – 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. <p>Maintenance Operative care of plant, machinery, hand tools, ancillary equipment and/or accessories.</p>

Unit PL4 Prepare Plant or Machinery for Operational Performance

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work</p> <p>Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work and materials used, to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant or machinery appropriate to the plant operation – complete pre-use checks – select ancillary equipment and/or accessories – prepare, set up and adjust for operational requirements, safety and security – complete functional checks – operate and move plant or machinery – move and remove ancillary equipment and/or accessories – use hand tools, ancillary equipment and accessories. <p>Team work and communication.</p> <p>Needs of other occupations associated with preparing plant or machinery for operations.</p> <p>Personal protective equipment (PPE)</p> <p>Occupational use, types, purpose of each type and work situations.</p> <p>Problems</p> <p>Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures.

Unit PL4 Prepare Plant or Machinery for Operational Performance

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment for plant or machinery relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – consumables, lubricants, fuels – ancillary equipment and/or accessories – hand tools. <p>Methods of calculating weight, quantity, length and area associated with the method/procedure to prepare plant or machinery for operations.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL5 Operate Plant or Machinery to Lift and Transfer Loads

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5 Select plant or machinery resources for the methods of work and operations to be carried out.	Selection of resources associated with own work: <ul style="list-style-type: none"> – tools and ancillary equipment and/or accessories.
6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
7 Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: <ul style="list-style-type: none"> – check, adjust, communicate, operate, manoeuvre, position, lift, transfer and set down. Use and maintain: <ul style="list-style-type: none"> – hand tools – ancillary equipment and/or accessories. Operate plant or machinery to lift and transfer loads to given working instructions relating to ONE of the following categories of plant or machinery: <ul style="list-style-type: none"> – lift trucks – cranes – knuckle boom cranes – excavator cranes – crawler tractor/side booms – skip handlers – hoists – container handlers – self-propelled motorised trailer. Shut down and secure plant or machinery.
8 Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL5 Operate Plant or Machinery to Lift and Transfer Loads

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing the operation of plant or machinery to lift and transfer loads.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of plant or machinery, hand tools, ancillary equipment and/or accessories.</p>

Unit PL5

Operate Plant or Machinery to Lift and Transfer Loads

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work</p> <p>Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant or machinery appropriate for the lifting operation – carry out performance checks for lifting and transferring loads – carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area – identify characteristics, type, weight, position of loads for lifting and transferring – secure and balance loads for lifting – lift, remove and transfer loads – position, place and set down loads – confirm loads stability and security and release – shut down and secure plant or machinery – use hand tools, ancillary equipment and accessories. <p>Team work and communication.</p> <p>Needs of other occupations associated with operating plant or machinery for lifting and transferring loads.</p> <p>Personal protective equipment (PPE)</p> <p>Occupational use, types, purpose of each type and work situations.</p>

Unit PL5 Operate Plant or Machinery to Lift and Transfer Loads

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures. <p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment for plant or machinery to lift and transfer loads relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – consumables, lubricants and fuels – attachments and lifting aids – hand tools, ancillary equipment and/or accessories. <p>Methods of calculating weight, bearing, pressure, quantity, length and area associated with the method/procedure to operate plant or machinery for lifting and transferring loads.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL6 Operate Plant or Machinery to Extract

Construction Skills Unit VR388

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- selecting and/or using materials, components and equipment for plant or machinery operations
- setting up, operating and shutting down plant or machinery for carrying out extraction work

<u>Performance Criteria</u>	<u>Scope of Performance</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>1 Interpret the given operating information relating to the use of plant or machinery and confirm its relevance.</p>	<p>Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the plant or machinery operations and the work to be carried out.</p>
<p>2 Organise with others the sequence in which the work is to be carried out.</p>	<p>Organisation of own work.</p> <p>Communication with team members and other associated occupations about the plant or machinery operation and the work to be carried out.</p>
<p>3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.</p>	<p>Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements.</p> <p>Safe use and storage of plant or machinery, tools and equipment.</p>
<p>4 Request resources to sustain plant or machinery operations to complete the programme of work.</p>	<p>Follow organisational procedures for the requisition of consumables, materials and other resources.</p>

Unit PL6 Operate Plant or Machinery to Extract

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5 Select plant or machinery resources for the methods of work and operations to be carried out.	Selection of resources associated with own work: – attachments, tools and ancillary equipment.
6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
7 Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: – check, adjust, communicate, manoeuvre, position, extract, form, remove and load. Use and maintain: – hand tools – ancillary equipment and/or accessories. Operate plant or machinery to extract ground, face and loose materials to given working instructions relating to ONE of the following categories of plant or machinery: – excavators – loading shovels – skid steer loaders – motorised scrapers – trenchers – draglines. Shut down and secure plant or machinery.
8 Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL6 Operate Plant or Machinery to Extract

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing the operation of plant or machinery for extraction work.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of plant or machinery, hand tools, ancillary equipment and/or accessories.</p>

Unit PL6 Operate Plant or Machinery to Extract

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant and machinery appropriate to the extraction operation – carry out performance checks for the extraction operation – identify the area to be extracted – carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area – check to avoid damage to structures and utilities service apparatus – extract, remove and load materials safely and securely – form stockpiles – shut down and secure plant or machinery – use hand tools, ancillary equipment and accessories. <p>Team work and communication.</p> <p>Needs of other occupations associated with operating plant or machinery to extract ground, face and loose materials.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures.

Unit PL6 Operate Plant or Machinery to Extract

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment for plant or machinery to extract relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – consumables, lubricants, fuels – attachments and extraction aids – hand tools, ancillary equipment and/or accessories. <p>Methods of calculating weight, quantity, length and area associated with the method/procedure to operate plant or machinery to extract ground and loose materials.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL7 Operate Plant or Machinery to Excavate

ConstructionSkills Unit VR389

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- selecting and/or using materials, components and equipment for plant or machinery operations
- setting up, operating and shutting down plant or machinery for carrying out excavation work

<u>Performance Criteria</u>	<u>Scope of Performance</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>1 Interpret the given operating information relating to the use of plant or machinery and confirm its relevance.</p>	<p>Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the plant or machinery operations and the work to be carried out.</p>
<p>2 Organise with others the sequence in which the work is to be carried out.</p>	<p>Organisation of own work.</p> <p>Communication with team members and other associated occupations about the plant or machinery operation and the work to be carried out.</p>
<p>3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.</p>	<p>Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements.</p> <p>Safe use and storage of plant or machinery, tools and equipment.</p>
<p>4 Request resources to sustain plant or machinery operations to complete the programme of work.</p>	<p>Follow organisational procedures for the requisition of consumables, materials and other resources.</p>

Unit PL7 Operate Plant or Machinery to Excavate

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5 Select plant or machinery resources for the methods of work and operations to be carried out.	Selection of resources associated with own work: – attachments, tools and ancillary equipment.
6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
7 Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: – check, adjust, communicate, operate, manoeuvre, position, excavate, measure and remove. Use and maintain: – hand tools – ancillary equipment and/or accessories. Operate plant or machinery to excavate ground and loose materials to given working instructions relating to ONE of the following categories of plant or machinery: – excavators – trenchers – dozers. Shut down and secure plant or machinery
8 Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL7 Operate Plant or Machinery to Excavate

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> – fires, spillages, injuries – relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing the operation of plant or machinery for excavation work.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> – 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. <p>Maintenance Operative care of plant or machinery, hand tools, ancillary equipment and/or accessories.</p>

Unit PL7 Operate Plant or Machinery to Excavate

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant and machinery appropriate to the excavating operation – carry out performance checks for excavation work – identify the area to be excavated – carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area – check to avoid damage to structures and utilities service apparatus – excavate accurately to line and level – use equipment to gauge and measure – excavate materials safely and securely – shut down and secure plant or machinery – use hand tools, ancillary equipment and accessories. <p>Team work and communication.</p> <p>Needs of other occupations associated with operating plant or machinery to excavate ground and loose materials.</p>
<p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures.

Unit PL7 Operate Plant or Machinery to Excavate

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment for plant or machinery for excavation work relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – consumables, lubricants, fuels – attachments and excavation aids – hand tools, ancillary equipment and/or accessories. <p>Methods of calculating weight, quantity, length and area associated with the method/procedure to operate plant or machinery to excavate ground and loose materials.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL8 Operate Plant or Machinery to Construct and Form

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5 Select plant or machinery resources for the methods of work and operations to be carried out.	Selection of resources associated with own work: <ul style="list-style-type: none">– tools and ancillary equipment and/or accessories.
6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
7 Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: <ul style="list-style-type: none">– check, adjust, communicate, manoeuvre, position, construct and form. Use and maintain: <ul style="list-style-type: none">– hand tools– ancillary equipment and/or accessories. Operate plant or machinery to construct and form to given working instructions relating to ONE of the following categories of plant or machinery: <ul style="list-style-type: none">– graders– piling rigs– dozers– tunnelling plant and equipment. Shut down and secure plant or machinery.
8 Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL8 Operate Plant or Machinery to Construct and Form

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing the operation of plant or machinery for construction and formation.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of plant or machinery, hand tools and ancillary equipment.</p>

Unit PL8 Operate Plant or Machinery to Construct and Form

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work, to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant and machinery appropriate to the construction and formation operation – carry out performance checks for the construction and formation operation – identify the area for the construction and formation work – carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area – check to avoid damage to structures and utilities service apparatus – complete construction and formation work – shut down and secure plant or machinery – use hand tools, ancillary equipment and accessories. <p>Team work and communication.</p> <p>Needs of other occupations associated with operating plant or machinery for construction and formation work.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures.

Unit PL8 Operate Plant or Machinery to Construct and Form

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment for plant or machinery to construct and form relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – consumables, lubricants, fuels – attachments and aids for construction and formation work – hand tools, ancillary equipment and/or accessories. <p>Methods of calculating weight, quantity, length and area associated with the method/procedure to operate plant or machinery to carry out construction and formation work.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL9 Operate Plant or Machinery to Receive and Transport Loads

ConstructionSkills Unit 391

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- selecting and/or using materials, components and equipment for plant or machinery operations
- setting up, operating and shutting down plant or machinery to receive and transport bulk material loads

<u>Performance Criteria</u>	<u>Scope of Performance</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
1 Interpret the given operating information relating to the use of plant or machinery and confirm its relevance.	Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the plant or machinery operations and the work to be carried out.
2 Organise with others the sequence in which the work is to be carried out.	Organisation of own work. Communication with team members and other associated occupations about the plant or machinery operation and the work to be carried out.
3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.	Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements. Safe use and storage of plant or machinery, tools and equipment.
4 Request resources to sustain plant or machinery operations to complete the programme of work.	Follow organisational procedures for the requisition of consumables, materials and other resources.

Unit PL9 Operate Plant or Machinery to Receive and Transport Loads

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>5 Select plant or machinery resources for the methods of work and operations to be carried out.</p>	<p>Selection of resources associated with own work:</p> <ul style="list-style-type: none"> – tools and ancillary equipment and/or accessories.
<p>6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.</p>	<p>Protection of the work and its surrounding area from damage.</p> <p>Disposal of waste in accordance with legislation.</p> <p>Minimise damage and maintain a clean work space.</p>
<p>7 Comply with the given contract information to carry out the work efficiently to the required specification.</p>	<p>Work skills to:</p> <ul style="list-style-type: none"> – check, adjust, communicate, manoeuvre, position, receive, transport and deposit. <p>Use and maintain:</p> <ul style="list-style-type: none"> – hand tools – ancillary equipment and/or accessories. <p>Operate plant or machinery to receive and transport bulk material loads to given working instructions relating to ONE of the following categories of plant or machinery:</p> <ul style="list-style-type: none"> – concrete pumps – forward tipping dumpers – agricultural tractors complete with towed equipment – dump trucks – bowsers. <p>Shut down and secure plant or machinery.</p>
<p>8 Complete the work within the allocated time, in accordance with the programme of work.</p>	<p>Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.</p>

Unit PL9 Operate Plant or Machinery to Receive and Transport Loads

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing the operation of plant or machinery to receive and transport loads.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of plant or machinery, hand tools and ancillary equipment.</p>

Unit PL9 Operate Plant or Machinery to Receive and Transport Loads

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work</p> <p>Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work, to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant and machinery appropriate for the receipt and transportation operation – carry out performance checks to receive and transport loads – identify characteristics, type and volume of loads to receive and transport – carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area – receive, secure and balance loads for transport – transport and deposit loads – shut down and secure plant or machinery – use hand tools, ancillary equipment and accessories. <p>Team work and communication.</p> <p>Needs of other occupations associated with operating plant or machinery for receiving and transporting bulk material loads.</p> <p>Personal protective equipment (PPE)</p> <p>Occupational use, types, purpose of each type and work situations.</p> <p>Problems</p> <p>Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures.

Unit PL9 Operate Plant or Machinery to Receive and Transport Loads

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment for plant or machinery to receive and transport bulk material relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – consumables, lubricants, fuels – attachments and load coverings – hand tools, ancillary equipment and/or accessories. <p>Methods of calculating weight, quantity, length and area associated with the method/procedure to operate plant or machinery for receiving and transporting bulk material loads.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL10 Operate Plant or Machinery for Accessing

ConstructionSkills Unit VR392

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- selecting and/or using materials, components and equipment with the plant or machinery operations
- setting up, operating and shutting down plant or machinery for accessing

<u>Performance Criteria</u>	<u>Scope of Performance</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>1 Interpret the given operating information relating to the use of plant or machinery and confirm its relevance.</p>	<p>Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the plant or machinery operations and the work to be carried out.</p>
<p>2 Organise with others the sequence in which the work is to be carried out.</p>	<p>Organisation of own work.</p> <p>Communication with team members and other associated occupations about the plant or machinery operation and the work to be carried out.</p>
<p>3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.</p>	<p>Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements.</p> <p>Safe use and storage of plant, machinery, tools and equipment.</p>
<p>4 Request resources to sustain plant or machinery operations to complete the programme of work.</p>	<p>Follow organisational procedures for the requisition of consumables, materials and other resources.</p>

Unit PL10 Operate Plant or Machinery for Accessing

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5 Select plant or machinery resources for the methods of work and operations to be carried out.	Selection of resources associated with own work: – tools and ancillary equipment and/or accessories.
6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
7 Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: – check, adjust, communicate, manoeuvre, position, access and set down. Use and maintain: – hand tools – ancillary equipment and and/or accessories. Operate plant or machinery for accessing to given working instructions relating to ONE of the following categories of plant or machinery: – mobile elevated working platforms – mast climbers. Shut down and secure plant or machinery.
8 Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL10

Operate Plant or Machinery for Accessing

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing the operation of plant or machinery for accessing.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of plant or machinery, hand tools and ancillary equipment.</p>

Unit PL10 Operate Plant or Machinery for Accessing

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work, to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant and machinery appropriate to the accessing operation – carry out performance checks for accessing operation – identify with area of access operation – carry out pre-operational checks for obstructions, stability, of the work and surrounding area – check to avoid damage to structures and utilities service apparatus – position, set up and secure plant or machinery for accessing operations – operate, manoeuvre, position and set down safety and securely – shut down and secure plant or machinery – use hand tools, ancillary equipment and accessories. <p>Team work and communication.</p> <p>Needs of other occupations associated with operating plant or machinery for accessing.</p>
<p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures.

Unit PL10 Operate Plant or Machinery for Accessing

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment for plant or machinery for accessing relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – consumables, lubricants, fuels – attachments and accessing aids – hand tools, ancillary equipment and/or accessories. <p>Methods of calculating weight, bearing, pressure, quantity, length and area associated with the method/procedure to operate plant or machinery for accessing.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL11 Operate Plant or Machinery to Lay and Distribute

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>5 Select plant or machinery resources for the methods of work and operations to be carried out.</p>	<p>Selection of resources associated with own work:</p> <ul style="list-style-type: none"> – tools and ancillary equipment and/or accessories.
<p>6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.</p>	<p>Protection of the work and its surrounding area from damage.</p> <p>Disposal of waste in accordance with legislation.</p> <p>Minimise damage and maintain a clean work space.</p>
<p>7 Comply with the given contract information to carry out the work efficiently to the required specification.</p>	<p>Work skills to:</p> <ul style="list-style-type: none"> – check, adjust, communicate, manoeuvre, position, mix, lay, distribute and compact. <p>Use and maintain:</p> <ul style="list-style-type: none"> – hand tools – ancillary equipment and/or accessories. <p>Operate plant or machinery for laying and distribution work to given working instructions relating to ONE of the following categories of plant or machinery:</p> <ul style="list-style-type: none"> – soil stabilisers – pavers – spreaders – chippers. <p>Shut down and secure plant or machinery.</p>
<p>8 Complete the work within the allocated time, in accordance with the programme of work.</p>	<p>Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.</p>

Unit PL11 Operate Plant or Machinery to Lay and Distribute

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing the operation of plant or machinery for laying and distribution work.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of plant or machinery, hand tools and ancillary equipment.</p>

Unit PL11 Operate Plant or Machinery to Lay and Distribute

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant and machinery appropriate to the laying and distribution operation – carry out performance checks for the laying and distribution work – identify with the area for the laying and distribution work – confirm material characteristics – carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area – check to avoid damage to structures and utilities service apparatus – complete laying and distribution work – shut down and secure plant or machinery – use hand tools, ancillary equipment and accessories. <p>Team work and communication.</p> <p>Needs of other occupations associated with operating plant or machinery for laying and distribution work.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures.

Unit PL11 Operate Plant or Machinery to Lay and Distribute

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment for plant or machinery to lay and distribute relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – consumables, lubricants, fuels – attachments, laying and distribution aids – hand tools, ancillary equipment and/or accessories. <p>Methods of calculating weight, quantity, length and area associated with the method/procedure to carry out laying and distribution work.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL12 Operate Plant or Machinery to Compact

Construction Skills Unit VR394

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- selecting and/or using materials, components and equipment for plant or machinery operations
- setting up, operating and shutting down plant or machinery for compaction work

<u>Performance Criteria</u>	<u>Scope of Performance</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>1 Interpret the given operating information relating to the use of plant or machinery and confirm its relevance.</p>	<p>Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the plant or machinery operations and the work to be carried out.</p>
<p>2 Organise with others the sequence in which the work is to be carried out.</p>	<p>Organisation of own work.</p> <p>Communication with team members and other associated occupations about the plant or machinery operation and the work to be carried out.</p>
<p>3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.</p>	<p>Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements.</p> <p>Safe use and storage of plant or machinery, tools and equipment.</p>
<p>4 Request resources to sustain plant or machinery operations to complete the programme of work.</p>	<p>Follow organisational procedures for the requisition of consumables, materials and other resources.</p>

Unit PL12

Operate Plant or Machinery to Compact

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5 Select plant or machinery resources for the methods of work and operations to be carried out.	Selection of resources associated with own work: <ul style="list-style-type: none">– tools and ancillary equipment and/or accessories.
6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
7 Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: <ul style="list-style-type: none">– check, adjust, communicate, manoeuvre, position and compact. Use and maintain: <ul style="list-style-type: none">– hand tools– ancillary equipment and/or accessories. Operate plant or machinery for compaction to given working instructions, relating to ONE of the following categories of plant or machinery: <ul style="list-style-type: none">– ride on rollers– compacters. Shut down and secure plant or machinery.
8 Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL12 Operate Plant or Machinery to Compact

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing the operation of plant or machinery for compaction work.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of plant or machinery, hand tools and ancillary equipment.</p>

Unit PL12 Operate Plant or Machinery to Compact

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work, to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant and machinery appropriate to the compaction operation – carry out performance checks for compaction operations – identify with the area for the compaction work – carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area – check to avoid damage to structures and utilities service apparatus – complete compaction work – shut down and secure plant or machinery – use hand tools, ancillary equipment and accessories. <p>Team work and communication.</p> <p>Needs of other occupations associated with operating plant or machinery for the compaction work.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures.

Unit PL12 Operate Plant or Machinery to Compact

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment for plant or machinery to construct and format relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – consumables, lubricants, fuels – attachments, compaction aids – hand tools, ancillary equipment and/or accessories. <p>Methods of calculating weight, quantity, length and area associated with the method/procedure to operate plant or machinery to carry out compaction work.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL13 Operate Plant or Machinery to Process

Construction Skills Unit VR395

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- selecting and/or using materials, components and equipment for plant or machinery operations
- setting up, operating and shutting down plant or machinery to carry out processing work

<u>Performance Criteria</u>	<u>Scope of Performance</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>1 Interpret the given operating information relating to the use of plant or machinery and confirm its relevance.</p>	<p>Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the plant or machinery operations and the work to be carried out.</p>
<p>2 Organise with others the sequence in which the work is to be carried out.</p>	<p>Organisation of own work.</p> <p>Communication with team members and other associated occupations about the plant or machinery operation and the work to be carried out.</p>
<p>3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.</p>	<p>Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements.</p> <p>Safe use and storage of plant or machinery, tools and equipment.</p>
<p>4 Request resources to sustain plant or machinery operations to complete the programme of work.</p>	<p>Follow organisational procedures for the requisition of consumables, materials and other resources.</p>

Unit PL13 Operate Plant or Machinery to Process

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5 Select plant or machinery resources for the methods of work and operations to be carried out.	Selection of resources associated with own work: <ul style="list-style-type: none"> – tools and ancillary equipment and/or accessories.
6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
7 Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: <ul style="list-style-type: none"> – check, adjust, communicate, manoeuvre, position and process. Use and maintain: <ul style="list-style-type: none"> – hand tools – ancillary equipment and/or accessories. Operate plant or machinery for processing operations to given working instructions, relating to ONE of the following categories of plant or machinery: <ul style="list-style-type: none"> – crushers – screeners – batching plant. Shut down and secure plant or machinery.
8 Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL13 Operate Plant or Machinery to Process

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing the operation of plant or machinery for carrying out processing work.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of plant or machinery, hand tools and ancillary equipment.</p>

Unit PL13 Operate Plant or Machinery to Process

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work, to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant and machinery appropriate to the processing operation – carry out performance checks for process operation – identify with the area for the process work – carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area – carry out the processing work – deposit processed materials – shut down and secure plant or machinery – use hand tools, ancillary equipment and accessories. <p>Team work and communication.</p> <p>Needs of other occupations associated with operating plant or machinery for the process work.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures.

Unit PL13 Operate Plant or Machinery to Process

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment for plant or machinery for processing work relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – consumables, lubricants, fuels – attachments, processing aids – hand tools, ancillary equipment and/or accessories. <p>Methods of calculating weight, bearing, pressure, quantity, length and area associated with the method/procedure to operate plant or machinery to carry out process work.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL14 Direct and Guide the Movement of Plant or Machinery

ConstructionSkills Unit VR396

Description:

This unit is about:

- interpreting information to direct and guide the movement and operations of plant or machinery
- adopting safe and healthy working practices
- selecting materials, components, tools and/or ancillary equipment to direct and guide the movement of loads or the movement and operations of plant or machinery
- preparing for and directing and guiding the movement of loads or the movement and operations of plant or machinery

<u>Performance Criteria</u> You must be able to:	<u>Scope of Performance</u> Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
1 Interpret the given operating information relating to the use of plant or machinery and confirm its relevance.	Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the plant or machinery operations and the work to be carried out.
2 Organise with others the sequence in which the work is to be carried out.	Organisation of own work. Communication with team members and other associated occupations about the plant or machinery operation and the work to be carried out.
3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.	Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements. Safe use and storage of tools and equipment.
4 Select plant or machinery resources for the methods of work and operations to be carried out.	Selection of resources associated with own work: <ul style="list-style-type: none">– hand tools and ancillary equipment– signalling and communication equipment.

Unit PL14 Direct and Guide the Movement of Plant or Machinery

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
6 Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: – measure, gauge, estimate, interpret, judge, explain, prepare, command, direct, guide, indicate, inform, instruct, sign, position, move, secure, signal and relay. Use and maintain: – hand tools and ancillary equipment – signalling and communication equipment. Direct and guide the movement of loads or movement and operations of plant or machinery to given working instructions relating to: – hand signals – hand signalling equipment – verbal/electronic communication.
7 Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL14

Direct and Guide the Movement of Plant or Machinery

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches, briefings, signalling and radio communication.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> – fires, spillages, injuries – relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information, Codes of Practice for the direction and guidance of plant or machinery.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> – 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. <p>Maintenance Operative care of hand tools, ancillary equipment, signalling and communication equipment.</p>

Unit PL14

Direct and Guide the Movement of Plant or Machinery

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 5</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p> <p><i>Performance Criteria 6</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work, to:</p> <ul style="list-style-type: none"> – assess and determine the movement of loads or movement and operations of plant or machinery – direct and guide the movement of loads or movement and operations of plant or machinery – signal and communicate following recognised/agreed operational procedures – use hand tools and ancillary equipment. <p>Team work and communication.</p> <p>Needs of other occupations associated with directing and guiding loads or plant or machinery.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures. <p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p>

Unit PL14 Direct and Guide the Movement of Plant or Machinery

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Resources Materials, components and equipment relating to types, quantity, quality and sizes of standard and/or specialist: – signalling and communication equipment – hand tools and ancillary equipment.</p> <p>Methods of calculating weight/bearing pressures, identifying centre(s) of gravity and quantity, length and area associated with the method/procedure for directing and guiding the movement of loads or plant or machinery.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL15 **Arrange and Secure Loads**

Performance Criteria (continued)

You must be able to:

Scope of Performance (continued)

Evidence must be work-based, simulation alone is only allowed where shown in ***bold italics***.

5 Comply with the given contract information to carry out the work efficiently to the required specification.

Work skills to:

- measure, gauge, calculate, select, fit, configure, test, balance, adjust, secure, position and remove.

Use and maintain:

- hand tools
- ancillary equipment
- lifting or load restraint accessories.

Arrange and secure loads for movement to given working instructions by:

EITHER

Slinger/signaller: any THREE of the following loads:

- balanced
- unbalanced
- loose
- bundled
- containers
- drums

OR

Loader/securer: all THREE loads:

- wheeled machinery
- tracked machinery
- rolling machinery.

6 Complete the work within the allocated time, in accordance with the programme of work.

Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL15 Arrange and Secure Loads

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing the arrangement and security of loads.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of hand tools, ancillary equipment and lifting or load restraint accessories.</p>

Unit PL15 Arrange and Secure Loads

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 3</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 4</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p> <p><i>Performance Criteria 5</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work and materials used, to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant and machinery and load appropriate to the slinging or securing operation – determine method for slinging or restraining – select and use suitable lifting or load restraint accessories – arrange and secure loads – confirm balance, stability and correct weight distribution – remove and store lifting and load restraint accessories on completion of movement – use hand tools and ancillary equipment – work at height. <p>Team work and communication.</p> <p>Needs of other occupations associated with arranging and securing loads.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures. <p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p>

Unit PL15 Arrange and Secure Loads

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 6</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – lifting or load restraint accessories, steel wire rope, chain, fabric, web hooks, shackles, clamps – hand tools and ancillary equipment. <p>Methods of calculating weight, bearing, pressure, quantity, length and area associated with the method/procedure for arranging and securing loads.</p> <p>Security procedures Site, workplace, company and operative.</p>

Unit PL16 Operate Road Rail Plant

ConstructionSkills Unit VR18

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- using plant or machinery, tools and/or ancillary equipment
- setting up, operating and shutting down plant or machinery for work on tracks

<u>Performance Criteria</u>	<u>Scope of Performance</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
1 Interpret the given operating information relating to the use of plant or machinery and confirm its relevance.	Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the plant or machinery and the work to be carried out.
2 Organise with others the sequence in which the work is to be carried out.	Organisation of own work. Communication with team members and other associated occupations about the plant or machinery operation and the work to be carried out.
3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.	Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements. Safe use and storage of plant or machinery, tools and equipment.
4 Request resources to sustain plant or machinery operations to complete the programme of work.	Follow organisational procedures for the requisition of consumables, materials and other resources.

Unit PL16 Operate Road Rail Plant

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5	
Select plant or machinery resources for the methods of work and operations to be carried out.	Selection of resources associated with own work: <ul style="list-style-type: none">- attachments, tools and ancillary equipment.
6	
Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
7	
Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: <ul style="list-style-type: none">- prepare, manoeuvre, configure, place, travel, negotiate, set, operate and remove. Use and maintain: <ul style="list-style-type: none">- hand tools- ancillary equipment and/or accessories. Operate road rail plant to given working instructions for ONE or more of the following: <ul style="list-style-type: none">- lift and/or transfer- extract- excavate- construct and/or form- receive and/or transport- access- lay and/or distribute- compact- demolish and/or process. Shut down and secure plant or machinery.
8	
Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL16 Operate Road Rail Plant

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of hand tools, plant or machinery and ancillary equipment.</p>

Unit PL16 Operate Road Rail Plant

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work and materials used, to:</p> <ul style="list-style-type: none"> – identify the characteristics of the plant and machinery appropriate to the rail operation – operate, maintain, shut down and secure road rail plant or machinery – operate radios – recognise all current signalling systems in use for road rail plant – place the plant or machine on and off rails – work on cants and gradients – negotiate points and crossings – move failed machines – use hand tools, ancillary equipment and accessories. <p>Team work and communication.</p> <p>Needs of other occupations associated with operating road rail plant.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures. <p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p>

Unit PL16 Operate Road Rail Plant

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment for road rail plant relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – consumables, fittings, fuels, oils, lubricants – accessories – hand tools and ancillary equipment. <p>Methods of calculating weight, quantity, length and area associated with the method/procedure to operate road rail plant.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL17 Operate Ancillary Equipment

ConstructionSkills Unit 399

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- using plant, machinery, materials, components, tools and ancillary equipment.
- setting up for the attachment of, operating with and closing down for the removal of ancillary equipment

<u>Performance Criteria</u>	<u>Scope of Performance</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
1 Interpret the given operating information relating to the use of plant or machinery and confirm its relevance.	Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the work to be carried out.
2 Organise with others the sequence in which the work is to be carried out.	Organisation of own work. Communication with team members and other associated occupations about the operation and/or work to be carried out.
3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.	Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements. Safe use and storage of plant or machinery, tools and equipment.
4 Request resources to sustain plant or machinery operations to complete the programme of work.	Follow organisational procedures for the requisition of consumables, materials and other resources.

Unit PL17 Operate Ancillary Equipment

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>5 Select plant or machinery resources for the methods of work and operations to be carried out.</p>	<p>Selection of resources associated with own work:</p> <ul style="list-style-type: none"> – attachments, tools and ancillary equipment.
<p>6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.</p>	<p>Protection of the work and its surrounding area from damage.</p> <p>Disposal of waste in accordance with legislation.</p> <p>Minimise damage and maintain a clean work space.</p>
<p>7 Comply with the given contract information to carry out the work efficiently to the required specification.</p>	<p>Work skills to:</p> <ul style="list-style-type: none"> – prepare, configure, align, fit, connect, fasten, adjust, secure, check, manoeuvre, operate, disconnect, remove and store. <p>Use and maintain:</p> <ul style="list-style-type: none"> – hand tools – ancillary equipment and/or accessories. <p>Operate plant attachments to given working instructions for ONE or more of the following:</p> <ul style="list-style-type: none"> – lift and transfer – cut or shear or sever – bore or drill or drive – remove – compact or level – access – demolish or process
<p>8 Complete the work within the allocated time, in accordance with the programme of work.</p>	<p>Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.</p>

Unit PL17 Operate Ancillary Equipment

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing ancillary equipment.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of plant or machinery, hand tools and ancillary equipment.</p>

Unit PL17 Operate Ancillary Equipment

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work and materials used, to:</p> <ul style="list-style-type: none"> – identify relevant attachment documentation – configure plant to accept attachments – fit attachments – operate, maintain, manoeuvre, shut down and secure plant with an attachment – recognise signals given to fit and remove attachments – disconnect attachments – remove attachments – store attachments – use hand tools and equipment. <p>Team work and communication.</p> <p>Needs of other occupations associated with the use of attachments.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures. <p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p>

Unit PL17 Operate Ancillary Equipment

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – fittings, fuels, oils, lubricants – accessories – hand tools and ancillary equipment. <p>Methods of calculating weight, quantity, length and area associated with the method/procedure to operate plant attachments.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL18 Operate Specialised Powered Tools and Equipment

ConstructionSkills Unit VR400

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- selecting and preparing specialised powered tools and/or ancillary equipment
- operating specialised powered tools and equipment

<u>Performance Criteria</u>	<u>Scope of Performance</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>1 Interpret the given information relating to the work and use of powered tools and equipment to confirm its relevance.</p>	<p>Interpretation of drawings, specifications, risk assessments, method statements, legislation, Codes of Practice, operating instructions and manufacturers' information, related to the work to be carried out.</p>
<p>2 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.</p>	<p>Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements.</p> <p>Safe use and security of powered tools and equipment.</p> <p><i>Safe use of fire extinguishers, as appropriate to the fire.</i></p>
<p>3 Request resources to sustain powered tools and/or equipment operations to complete the programme of work.</p>	<p>Request resources to sustain powered tools and/or equipment associated with own work:</p> <ul style="list-style-type: none"> – fuel/power source – lubricants – consumables.
<p>4 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.</p>	<p>Protection of the work and its surrounding area from damage.</p> <p>Disposal of waste in accordance with legislation.</p> <p>Minimise damage and maintain a clean work space.</p>

Unit PL18 Operate Specialised Powered Tools and Equipment

Performance Criteria (continued)

You must be able to:

- 5 Carry out pre-use preparation inspections on powered tools and/or equipment in accordance with given procedures.

Scope of Performance (continued)

Evidence must be work-based, simulation alone is only allowed where shown in ***bold italics***.

Work skills to:

- measure, align, assemble, fit, level, position, check, secure, connect and adjust.

Use and maintain:

- power units
- tools
- ancillary equipment.

Prepare the power unit tool(s) and/or ancillary equipment to given working instructions.

-
- 6 Operate powered tools and/or equipment in accordance with safe working practices to achieve the work outcome.

Work skills to:

- start, stop, replenish, control and clean.

Use and maintain:

- power units
- tools
- ancillary equipment.

Operate and monitor power unit and associated equipment to given working instructions, relating to:

- continual running
- closing down
- cleaning.

Return powered tools and equipment to a safe operational condition on completion of work.

Disassemble power unit, tools and ancillary equipment.

Unit PL18

Operate Specialised Powered Tools and Equipment

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The operating information and legislation appropriate to the <i>powered tools and/or equipment</i>.</p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation and official guidance and how it is applied.</p> <p>The types of fire extinguishers and how and when they are used.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>powered tools and/or equipment</i> and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p><i>Disposal of waste</i> Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Fire extinguishers Water, CO₂, foam, powder and their uses.</p> <p>Hazards Those identified by method of work, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, risk assessments, method statements, legislation, Codes of Practice, manufacturers' information and operating instructions.</p> <p>Legislation and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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.

Unit PL18 Operate Specialised Powered Tools and Equipment

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><u>Performance Criteria 3</u> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><u>Performance Criteria 4</u> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p> <p><u>Performance Criteria 5</u> <i>Pre-use preparation</i></p> <p>The methods of work for pre-use checks needed before operating <i>powered tools and/or equipment</i>.</p> <p>The method of work preparation required before using <i>powered tools and/or equipment</i>.</p> <p><u>Performance Criteria 6</u> <i>Use of tools and equipment</i></p> <p>How methods of work are carried out and problems reported.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work and materials used, to:</p> <ul style="list-style-type: none"> - prepare, position and set up for work - secure accessories and tool attachments - carry out pre-use checks to manufacturers' and suppliers' information/procedures - operate, use and control - monitor and maintain - close down and secure - disassemble - transport and/or store. <p>Team work and communication.</p> <p>Needs of other occupations associated with operating power units, tools and/or equipment.</p> <p>Personal protective equipment (PPE) Occupational use, type, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> - own authority to rectify - organisational reporting procedures. <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> - power source/fuels - consumables/lubricants. <p>Security procedures Site, workplace, company and operative.</p>

Unit PL19 Set Out Secondary Dimensional Work Control

Construction Skills Unit VR401

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- selecting setting out equipment and ancillary resources
- preparing and setting out secondary dimensional control of the work

<u>Performance Criteria</u>	<u>Scope of Performance</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
1 Interpret the given information relating to the work and resources to confirm its relevance.	Interpretation of drawings, method statements, specifications, schedules, manufacturers' information and reference points, related to the work to be carried out.
2 Comply with the given, relevant legislation and official guidance to carry out your work and maintain safe work practices.	Safe use of personal protective equipment (PPE) and access equipment/working platforms to carry out the activity, in accordance with legislation and/or organisational requirements. Safe use and storage of tools and equipment.
3 Select the required quantity and quality of resources for the methods of work.	Selection of resources associated with own work: <ul style="list-style-type: none"> – measuring tools and instruments – marking materials/components – tools and equipment.
4 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.

Unit PL19

Set Out Secondary Dimensional Work Control

Performance Criteria (continued)

You must be able to:

- 5 Comply with the given contract information to carry out the work efficiently to the required specification.

Scope of Performance (continued)

Evidence must be work-based, simulation alone is only allowed where shown in ***bold italics***.

Work skills to:

- transfer, transpose, level, measure, mark, position, fix and secure.

Use and maintain:

- hand tools
- measuring and marking equipment.

Set out secondary dimensional control for the work to contractor's working instructions for any THREE from:

- line
- level
- depth
- area
- height
- angle.

-
- 6 Complete the work within the allocated time, in accordance with the programme of work.

Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL19

Set Out Secondary Dimensional Work Control

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> – fires, spillages, injuries – relating to the occupational area. <p>Hazards Those identified by method of work, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information, reference points and regulations governing buildings and construction work.</p> <p>Legislation and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> – 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. <p>Maintenance Operative care of hand tools, measuring and marking equipment and ancillary equipment.</p>

Unit PL19

Set Out Secondary Dimensional Work Control

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 3</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with the resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work and materials used, to:</p> <ul style="list-style-type: none"> – measure and set out secondary dimensional control for the work – measure, align and level to dimensional control requirements – transfer and set out line, angles and levels to dimensional control requirements – use hand tools and measuring and marking equipment – work at height – use access equipment. <p>Methods of calculating height, depth, angle, length and area associated with the method/procedure to set out for secondary dimensional work control.</p>
<p><i>Performance Criteria 4</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Team work and communication.</p> <p>Needs of other occupations associated with setting out secondary dimensional control.</p> <p>Personal protective equipment (PPE) Occupational use, type, purpose of each type and work situations.</p>
<p><i>Performance Criteria 5</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of tools and equipment is carried out.</p>	<p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures. <p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p>

Unit PL19

Set Out Secondary Dimensional Work Control

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 6</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – measuring tools and instruments – marking equipment – level and alignment tools. <p>Methods of calculating quantity of resources associated with the method/procedure to set out for secondary dimensional control.</p> <p>Security procedures Site, workplace, company and operative.</p>

Unit PL20 Slinging and Signalling the Movement of Loads

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
6 Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: – measure, gauge, estimate, fit, fix, test, balance, interpret, judge, explain, prepare, indicate, inform, instruct, sign, position, adjust, configure, move, secure, signal and relay. Use and maintain: – hand tools and ancillary equipment – slinging equipment – signalling and communication equipment. Slinging and signalling for the lifting and movement of loads by plant or machinery operations to given working instructions.
7 Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL20 Slings and Signalling the Movement of Loads

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches, briefings, signalling and radio communication.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> – fires, spillages, injuries – relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information, approved procedures, Codes of Practice.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> – 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. <p>Maintenance Operative care of hand tools, ancillary equipment, slinging equipment, signalling and communication equipment.</p>

Unit PL20

Slinging and Signalling the Movement of Loads

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 5</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p> <p><i>Performance Criteria 6</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work, to:</p> <ul style="list-style-type: none"> – confirm method of communication – determine method of slinging – select and use suitable slinging equipment and lifting accessories – sling loads securely and balance with correct weight distribution – signal and communicate following recognised/agreed operational procedures – position loads safely and securely – remove and store lifting accessories – use hand tools and ancillary equipment. <p>Team work and communication.</p> <p>Needs of other occupations associated with slinging and signalling the movement of loads.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures. <p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p>

Unit PL20 Slinging and Signalling the Movement of Loads

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – lifting accessories – signalling and communication equipment – hand tools and ancillary equipment. <p>Methods of calculating weight, bearing pressure, quantity, length and area associated with the method/procedure for slinging and signalling the movement of loads.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL21 Plant Operations from a Barge

ConstructionSkills Unit VR403

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- selecting materials, components and equipment
- preparing for, moving, containing and anchoring the barge vessel for plant operations

<u>Performance Criteria</u>	<u>Scope of Performance</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
1 Interpret the given operating information relating to the use of plant or machinery and confirm its relevance.	Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the barge operation and the work to be carried out.
2 Organise with others the sequence in which the work is to be carried out.	Organisation of own work. Communication with team members and other associated occupations about the barge operation and the work to be carried out.
3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.	Avoid hazards by following given safety information, including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements. Safe use and storage of plant and barge vessel, tools and equipment. Safe use of fire extinguishers, as appropriate to the fire.
4 Request resources to sustain operations to complete the programme of work.	Follow organisational procedures for the requisition of consumables, materials and other resources.

Unit PL21 Plant Operations from a Barge

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
<p>You must be able to:</p>	<p>Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i>.</p>
<p>5. Select plant or machinery_resources for the methods of work and operations to be carried out.</p>	<p>Selection of resources associated with own work:</p> <ul style="list-style-type: none"> - plant, machinery, attachments, tools and ancillary equipment.
<p>6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.</p>	<p>Protection of the work and its surrounding area from damage.</p> <p>Disposal of waste in accordance with legislation.</p> <p>Minimise damage and maintain a clean work space.</p>
<p>7 Comply with the given contract information to carry out the work efficiently to the required specification.</p>	<p>Work skills to:</p> <ul style="list-style-type: none"> - check, set up, adjust, communicate, operate, manoeuvre, control, position and anchor. <p>Use and maintain:</p> <ul style="list-style-type: none"> - hand tools - ancillary equipment and accessories. <p>Manoeuvre, position and secure the plant to the barge and ballast and anchor the barge.</p> <p>Carry out plant operations from a barge to given working instructions, protocols and Codes of Practice, relating to the movement of the plant and barge, for ONE or more of the following operations:</p> <ul style="list-style-type: none"> - lift - transfer - extract - excavate - construct - form - receive - transport - access - lay - distribute - compact - demolish - process. <p>Shut down and secure plant or machinery.</p>

Unit PL21

Plant Operations from a Barge

Performance Criteria (continued)

You must be able to:

- 8 Complete the work within the allocated time, in accordance with the programme of work.

Scope of Performance (continued)

Evidence must be work-based, simulation alone is only allowed where shown in ***bold italics***.

Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL21 Plant Operations from a Barge

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>The types of fire extinguishers and how and when they are used.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for <i>plant and/or machinery</i>, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Fire extinguishers Water, CO₂, foam, powder and their uses.</p> <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information and regulations governing operations from and with a barge vessel.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - in the workplace, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting. <p>Maintenance Operative care of hand tools and ancillary equipment.</p>

Unit PL21 Plant Operations from a Barge

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work, to:</p> <ul style="list-style-type: none"> – identify the characteristics of the barge vessel appropriate to the plant operation – carry out performance checks for the control of plant or machinery on the barge – confirm the area of work for the operation – confirm safety and security requirements – prepare, manoeuvre, position, anchor, ballast and set up the barge for plant operations – carry out plant operations for the control of barges to recognised Codes of Practice – stop, shut down operations and secure plant and barge – use hand tools and equipment. <p>Team work and communication.</p> <p>Needs of other occupations associated with the operations and control of a barge.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures.

Unit PL21 Plant Operations from a Barge

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of plant and/or machinery, tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p> <p>Resources Materials, components and equipment relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – barge vessel – consumables, lubricant, fuels – attachments – hand tools, accessories and ancillary equipment. <p>Methods of calculating weight, ballast, quantity, length and area associated with the method/procedure for plant operations from, and control of, a barge.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

Unit PL22 Erect and Dismantle Plant (Cranes and Rigs)

ConstructionSkills Unit VR404

Description:

This unit is about:

- interpreting information
- adopting safe and healthy working practices
- selecting materials, components, plant, tools and/or ancillary equipment
- preparing for operator or operator assisted erection and dismantling of mobile cranes, drilling, piling and demolition rigs

<u>Performance Criteria</u>	<u>Scope of Performance</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
1 Interpret the given operating information relating to the use of plant and/or machinery and confirm its relevance.	Interpretation of drawings, specifications, schedules, method statements, manufacturers' information, related to the work to be carried out.
2 Organise with others the sequence in which the work is to be carried out.	Organisation of own work. Communication with team members and other associated occupations about the operation and/or work to be carried out.
3 Comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe work practices.	Avoid hazards by following risk and/or COSHH assessments including the use of personal protective equipment (PPE) to carry out the activity in accordance with legislation, Approved Codes of Practice and/or organisational requirements. Safe use and storage of plant, tools and equipment.
4 Request resources to sustain plant and/or machinery operations to complete the programme of work.	Follow organisational procedures for the requisition of consumables, materials and other resources.

Unit PL22

Erect and Dismantle Plant (Cranes and Rigs)

<u>Performance Criteria (continued)</u>	<u>Scope of Performance (continued)</u>
You must be able to:	Evidence must be work-based, simulation alone is only allowed where shown in <i>bold italics</i> .
5. Select plant and/or machinery resources for the methods of work and operations to be carried out.	Selection of resources associated with own work: <ul style="list-style-type: none">– attachments, tools and ancillary equipment.
6 Comply with organisational procedures to minimise the risk of damage to the work and surrounding area.	Protection of the work and its surrounding area from damage. Disposal of waste in accordance with legislation. Minimise damage and maintain a clean work space.
7 Comply with the given contract information to carry out the work efficiently to the required specification.	Work skills to: <ul style="list-style-type: none">– unload, load, site, measure, mark out, lay out, align, fit, position, connect, configure, dismantle, remove, adjust, secure, check and inspect. Use and maintain: <ul style="list-style-type: none">– hand tools– portable power tools– ancillary equipment and machinery. Prepare, erect and dismantle plant to given working instructions for one or more of the following: <ul style="list-style-type: none">– mobile crane– mobile tower crane– drilling rig– piling rig– demolition rig.
8 Complete the work within the allocated time, in accordance with the programme of work.	Completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client.

Unit PL22 Erect and Dismantle Plant (Cranes and Rigs)

<p><u>Knowledge and Understanding relating to Performance Criteria</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 1</i> <i>Interpretation of information</i></p> <p>The organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented.</p> <p>The types of information, their source and how they are interpreted.</p> <p>The organisational procedures to solve problems with the information and why it is important they are followed.</p> <p><i>Performance Criteria 2</i> <i>Organise with others</i></p> <p>Communication of ideas between team members.</p> <p>Organisation of resources in conjunction with the progress of work.</p> <p>Skills required to carry out the work.</p> <p><i>Performance Criteria 3</i> <i>Safe work practices</i></p> <p>The level of understanding operatives must have of information for relevant, current legislation, Approved Codes of Practice and official guidance and how it is applied.</p> <p>How emergencies should be responded to and who should respond.</p> <p>The organisational security procedures for plant, tools, equipment and personal belongings.</p> <p>What the accident reporting procedures are and who is responsible for making the report.</p> <p>Why and when personal protective equipment (PPE) should be used.</p>	<p>Communication Discussions, sketches and briefings.</p> <p>Disposal of waste Environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p> <p>Emergencies Operative's response to situations in accordance with organisational authorisation and personal skills when involved with:</p> <ul style="list-style-type: none"> - fires, spillages, injuries - relating to the occupational activity. <p>Hazards Those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance.</p> <p>Information Drawings, specifications, schedules, method statements, manufacturers' information.</p> <p>Legislation, Approved Codes of Practice and official guidance This relates to the operative's understanding of their responsibilities regarding current legislation whilst working:</p> <ul style="list-style-type: none"> - 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. <p>Maintenance Operative care of hand tools and/or portable power tools, plant and ancillary equipment.</p>

Unit PL22

Erect and Dismantle Plant (Cranes and Rigs)

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 4</i> <i>Request resources</i></p> <p>The organisational procedures for requisitioning consumables and other resources.</p> <p><i>Performance Criteria 5</i> <i>Selection of resources</i></p> <p>The characteristics, quality, uses, limitations and defects associated with plant resources and how defects should be rectified.</p> <p>How the resources should be used and how any problems associated with the resources are reported.</p> <p>The organisational procedures to select resources, why they have been developed and how they are used.</p> <p>The hazards associated with the resources and methods of work and how they are overcome.</p> <p><i>Performance Criteria 6</i> <i>Minimise the risk of damage</i></p> <p>How to protect work from damage and the purpose of protection.</p> <p>Why disposal of waste should be carried out safely and how it is achieved.</p>	<p>Methods of work Application of knowledge for safe work practices, procedures, skills and transference of competence, relating to the area of work, to:</p> <ul style="list-style-type: none"> – erect and dismantle one or more of the following: <ul style="list-style-type: none"> – mobile crane, mobile tower crane, drilling rig, piling rig, demolition rig – use hand tools, power tools, plant and equipment. <p>Team work and communication.</p> <p>Needs of other occupations associated with the erection and dismantling of plant.</p> <p>Personal protective equipment (PPE) Occupational use, types, purpose of each type and work situations.</p> <p>Problems Those arising from information, resources and methods of work:</p> <ul style="list-style-type: none"> – own authority to rectify – organisational reporting procedures. <p>Programme Types of progress charts, timetables and estimated times.</p> <p>Organisational procedures for reporting circumstances which will affect the work programme.</p> <p>Protect work Against damage from general workplace activities, other occupations and adverse weather conditions.</p>

Unit PL22 Erect and Dismantle Plant (Cranes and Rigs)

<p><u>Knowledge and Understanding relating to Performance Criteria (continued)</u></p> <p>You must know and understand:</p>	<p><u>Scope of Knowledge and Understanding (continued)</u></p> <p>The knowledge and understanding evidence should relate to the occupational area being assessed.</p>
<p><i>Performance Criteria 7</i> <i>Meet the contract specification</i></p> <p>How methods of work, to meet the specification, are carried out and problems reported.</p> <p>How maintenance of tools and equipment is carried out.</p> <p><i>Performance Criteria 8</i> <i>Allocated time</i></p> <p>What the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept.</p>	<p>Resources Materials, components and equipment relating to types, quantity, quality and sizes of standard and/or specialist:</p> <ul style="list-style-type: none"> – plant – hand and/or powered tools and equipment. <p>Methods of calculating weight, bearing, pressure, quantity, length and area associated with the method/procedure to erect and dismantle plant.</p> <p>Security procedures Site, workplace, company and operative.</p> <p>Skills Own occupation and occupations related to the work.</p>

EPIC

The Training Organisation for the Extractive & Minerals Processing Industries

On behalf of

Proskills

The Sector Skills Council in Development for the Processing and Manufacturing Industries

Assessment Strategy for the Extractive & Minerals Processing Industries

PLANT OPERATIONS (EXTRACTIVES)

Endorsed, 2002.

Revision, December 2004.

UKCG Approved March 2005.

Assessment Strategy
for the Extractive and Minerals Processing Industries National Occupational Standards (NOS), National Vocational Qualifications (NVQs) and Scottish Vocational Qualifications (SVQs) for Plant Operations (Extractives)

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A General Requirements

- 1.0** The Assessment Strategy for the Extractive and Minerals Processing Industries Plant Operations (Extractives) is detailed below. It applies throughout the standards and should be used as the basis for all individual assessments. It replaces all previous versions of Assessment Strategies for the Extractive and Minerals Processing Industries
- 2.0** The requirements have been brought together in this single document in order to avoid repetition and they represent a key part of the assessment process. They are supplemented by award-specific Assessment Guidance (Annexes 1 attached) which identify appropriate forms of evidence for the particular competence being assessed.
- 3.0** In the development and implementation of all EPIC standards and awards, reference should be made back to this strategy when specifying the assessment requirements for each element of competence. The Internal and External Verifier will seek evidence that they have been addressed by candidates and Assessors at all times.

4.0 Requirements

- 4.1.** Assessment must take place
 - within the workplace
 - during normal working situations.
 - using relevant industrial or commercial standards and procedures
 - in accordance with the Assessment Plan jointly prepared by and agreed between the Candidate and their Assessor
- 4.2.** At levels 1, 2 and 3 observation of normal working activity should be the primary assessment method used. At higher levels, review and questioning of documentation held in the candidate's file that is relevant to work activities and decision-making will also play a significant part in assessment.
- 4.3.** Observation should be supported by documentary evidence of having met specific components of the standard. This should be detailed in the Assessor's reports of observation. At higher levels, where more of the evidence will be in documentary form, it is particularly important that the material is clearly presented and cross-referenced to the National Occupational Standards.
- 4.4.** Simulation generally is not acceptable, but may be allowed as an alternative to direct observation in appropriate situations e.g. where real task performance in the normal working environment is clearly not possible. This includes situations where generation of performance evidence would only be possible during emergencies where risks to people, the environment and the facility were present.

- 4.5. In addition to inferring knowledge from performance, knowledge will be assessed via questioning by the Assessor. This illustrates the importance of the level of the Assessor's occupational competence. Whilst not precluding the use of pre-set questions, the Assessor will use planned 'free-form' questioning on all aspects of competence referred to in the Standards but not adequately demonstrated by other forms of evidence.
- 4.6. Assessment of knowledge at higher levels will need to be sufficiently rigorous to reveal the candidate's understanding of the theories and principles that inform key actions and decision making.
- 4.7. Evidence should be produced over a period of time sufficient to demonstrate consistency of competent performance and application of knowledge for each element. A minimum period of time is specified in the Specific Guidance for each award. However, where the evidence for any Unit is more than two years old, the Assessor must review the evidence to ensure it remains valid in terms of current practice.
- 4.8. Evidence should be drawn from separate assessments taken over a period of time in order to demonstrate all components of the standards. The time period between assessments should fit the complexity, variability and duration of the activity and the frequency of normally occurring opportunities for assessment. Assessment of simple, routine and regularly occurring tasks can be carried out over a much shorter timescale than those in which there are significant variables, such as weather conditions or technical complexity or where opportunities to demonstrate competence are relatively infrequent.
- 4.9. Wherever possible, evidence for assessment should be drawn from work activities in which the candidate has been continuously involved throughout the process i.e. preparing for and setting up the task, carrying out the task, completing the task and accounting for / recording actions taken.
- 4.10. While bits and pieces of evidence can usefully be drawn from different contexts to complement the candidate's file, to demonstrate breadth in competence and to fill gaps, ill-assorted material should not constitute the main part of the evidence presented for assessment
- 4.11. A single assessment event and the accompanying evidence can be used to demonstrate more than one competence and as such may apply to more than one element of the standards. This 'integrated (or holistic) assessment' approach is strongly recommended.
- 4.12. Individual pieces of evidence should be substantially different from each other and should be representative of the range of activities and conditions encountered within the job role of the candidate.
- 4.13. Evidence presented should be accompanied, where appropriate, by a clear statement of the specific context in which it has been generated. The evidence should be cross-referenced to other forms of evidence including observation.
- 4.14. Overall, the evidence presented should reflect realistic work activities which seek to satisfy all of the standards.

B Specific Requirements

- 5 Each component of the Evidence Requirements has implications for designing an effective assessment procedure to ensure valid and reliable measurement of the standards. These are clarified below.

5.1. Location and context of assessment

There must be evidence of candidates' demonstrating competence in the real (or, at least, realistic) work environment. For most candidates this means his/her normal place of work. Short work placements or non-realistic work environments, which do not replicate the pressures and requirements of normal commercial or industrial activities, will not be acceptable. The bulk of the candidate's evidence should be drawn from their normal working activity and not consist of artificially contrived opportunities for one-off demonstration of competence. Similarly equipment must be that used in current commercial and industrial contexts. Procedures and standards used should be those that are nationally or internationally recognised or devised by specific companies as standard operating procedures. In the assessment of knowledge, particularly where this relates to legislation, regulations and procedures, it is essential that currently applicable documentation be used as a basis for assessment

5.2. Acceptable forms of evidence

5.2.1 Candidates will need to present evidence that will include the following components:

5.2.2 Proof that qualified Assessors (or, where permitted for the Award, third parties such as line managers) have **observed** the candidate correctly performing the competences required in the standards. Where specified the number of observations **must**¹ be made and details of the nature of the work being performed during the observation must also be available for external verification. Third parties involved in providing 'witness testimony' must be competent to make judgements about the activity (ies) for which they are providing the testimony. They act as secondary and corroborating sources of evidence and must be carefully selected and approved. The Assessor will make all decisions on the candidate's competence. See 5.7 below.

5.2.3 For the more experienced candidate, the Accreditation of Prior Learning/Achievement (APL/A) method of proving competence should also be considered. Any limitations to the acceptability/transferability of learning/achievement will be noted in the award specific annex.

5.2.4 Observations must be formally recorded, in hard copy or electronic form, and fully describe what has been observed and how the activity/task has met the standard. In addition, documentation can be used to support the successful performance of an activity when not directly observed by the

¹ More observations than the minimum may be necessary where the Assessor remains uncertain about the consistency of the candidate's performance or the work context offers only limited opportunities for making a rounded judgement about the candidate's capability.

Assessor where this is permitted. Normally this evidence would consist of specifications or standard operating procedures, production or process records, quality assurance records and final records of end results. If the candidate proposes to use such supplementary documentation, they should list what it is and identify where it is stored and only bring it forward if the Assessor agrees it will be helpful in the assessment process.

5.2.5 The supporting documentation² must be validated as relating to the candidate's normal work and must be clearly cross-referenced to the standards and, where appropriate, to the specific requirements for each award. This is usually confirmed by line manager or QA signatures on work documents. In particular cases, specified in the Assessment Guidance for an award, additional evidence such as customer endorsements or reports of results may be required.

5.2.6 To avoid the unnecessary assembly of supporting documentation, the Assessment Plan should seek to define:

- what evidence is to be collected
- what will be acceptable sources of evidence
- what will constitute sufficient evidence for assessment purposes

5.3. Candidates requiring reasonable adjustments and special consideration

5.3.1 The Assessor should adapt the method(s) of assessment to ensure that the candidate is not put at a disadvantage because of the assessment process (e.g. the Assessor might use oral questioning in place of written tests). This should be in accordance with the appropriate guidance from the Regulatory Body(ies) ie the Qualifications & Curriculum Authority (QCA) and/or the Scottish Qualifications Authority (SQA).

5.3.2 The language of assessment will normally be English but can be bi-lingual or in any other language providing that:

- There is a translation³ of the relevant standards, approved by the awarding body and available to the candidate
- The Assessment Centre, Internal Verifier and Assessor(s) are competent to carry out such assessments and to give feedback to candidates in their own language.
- The Assessment and Verification reports are in English to facilitate External Assessment

5.4. Simulation

² At higher levels, documentation in the form of a 'portfolio' will be a very important source of evidence. Not only should it contain material that provides an audit trail of decision-making where the candidate has been involved in critical incidents, but also should reveal the candidate's systematic approach to the management and control of health, safety and environmental matters.

³ It is not the responsibility of the Awarding Body to provide translations from English unless specifically commissioned to do so by the responsible Government Departments and/or National Accreditation Authorities.

- 5.4.1 Simulation, where permitted, can be used to demonstrate particular competences that would be difficult or dangerous to demonstrate directly (e.g. in dealing with emergencies). They should only be used where direct evidence of candidate performance cannot be obtained.
- 5.4.2 The External Verifier must approve in advance the use of simulation and will require clear reasons for its planned use. Details of planned assessment using simulation should be provided to the External Verifier and should include the following details:
- Which competence (and standards) the simulation is designed to assess
 - The kind of equipment, facilities and physical environment proposed for the simulation of performance
 - How the simulated activity will relate to the candidate's normal work context
 - How the simulation is to be set up and conducted, preferably supported by physical evidence such as photographs or inspection of a test rig
- 5.4.3 If approval is given, all specific Awarding Body guidance and requirements for simulation should be observed. Also, Assessors, Internal Verifiers and External Verifiers should monitor the proportion of evidence generated via simulations to ensure that it will not be the primary source of a candidate's claim to competence.
- 5.4.4 Simulation is therefore reserved for aspects of competence illustrated by the following contexts:
- Where demonstration, for example, of emergency shutdown and related safety procedures would be; dangerous and/or disruptive to plant/environment/individuals; too costly such as total plant shutdown or dealing with spillage of dangerous substances; where issues of confidentiality/security restrict access to real work opportunities
 - Demonstrating specific aspects of contingencies which rarely or never occur due to effective QA systems
 - The capacity to integrate disparate knowledge to cope with unforeseen events and to solve problems

5.5. Knowledge and Understanding

- 5.5.1 Knowledge and Understanding will be assessed via (pre-set and/or free form) questions and by evidence of performance, which cover three primary types of knowledge:
- Knowledge of facts and procedures
 - Understanding of principles and concepts underpinning procedures
 - How to apply principles and procedures in specific contexts

Knowledge evidence supplied must be clearly referenced to the relevant standard and the standard must be fully covered.

- 5.5.2 All questions must be asked by the Assessor at appropriate moments throughout the assessment process, preferably linked to observed activity and/or review of documentary evidence. The questions asked of, and answers provided by, the candidate may be recorded and used as the basis for a useful question/answer bank. The order in which the candidate provides the response is not material. Where the candidate fails to provide a complete answer, the Assessor should carry out further questioning to check whether or not the candidate has the necessary knowledge and understanding. This can take the form of further open questioning or providing a guided opportunity to acquire the missing knowledge and re-present for assessment. The candidate and Assessor must validate and date the formal record in all cases.
- 5.5.3 There must be some form of verification that the questions have been asked either by detailed cross-referencing to other forms of evidence, by a sample selection of candidate's responses provided in writing or by an Assessor report on when and how the questions were asked. The precise form of verification must be agreed between the Assessor, the Internal Verifier and the External Verifier applying specific Awarding Body procedures.
- 5.5.4 The second form of knowledge and understanding questioning encouraged is the free-form questioning of the candidate during other forms of assessment e.g. during observation or when reviewing procedures and related documentation. Assessors should ask "What if?" questions that test the candidate's depth of understanding. For example: how they would deal with anomalies and special requirements; how they would go about tackling rare occurrences; cope with new situations or solve problems. Sometimes this requires the description by the Assessor of different 'scenarios' that help to reveal whether the candidate has an adequate grasp of what action is required in situations that only occur infrequently. Using 'scenario testing' should not be confused with 'simulation'. The former is based on evidence that the candidate has already demonstrated the essentials of competence in the workplace and tests versatility and depth; the latter is used as a substitute for evidence of work based competence. The candidate and Assessor must validate and date the formal record in all cases.
- 5.5.5 At higher levels, it may be necessary to establish and confirm candidates' understanding of underlying theory and principle through more formal measures such as professional and/or guided discussions, written tests, case studies, work based projects. Where this is the case, the selected method/s should be designed to realistically reflect the range of circumstances and contexts in which candidates are likely to have to demonstrate their understanding. Scenario testing is used quite frequently at higher levels. The candidate and Assessor must validate and date the formal record in all cases.

5.6. The sufficiency and balance of evidence required

5.6.1 Candidates will be expected to bring together evidence over a period of time which, collectively, meets all the requirements of the Unit, the individual components of each Element and adequately reflects the range of work situations and contexts. The broad requirements of Section A of this document must also be met and the evidence must follow the detailed assessment guidance for the award as well as meeting the requirements set out and agreed in the Assessment Plan by the Candidate and their Assessor.

5.6.2 The following features of sufficiency should be addressed:

- Sustained performance over time is required to show competence and consistency in performance across the full range of normal working conditions, meeting all the requirements and providing an adequate number of examples of varied work activity. What is being looked for is the capacity to consistently perform what is required of the candidate in the work environment over the full range of activities, conditions and contexts.
- Much will depend upon the nature of the activity in question, as some complex activities may take a considerable period of time and involve a series of mutually independent stages. Some simple sampling or testing activities are frequent and repetitive and may be demonstrated over a relatively short period of time.
- Assessors should always attempt to achieve an appropriate balance of types of evidence.
- As a safety critical industry, no assessments are valid unless the health, safety and environmental requirements set out in the National Occupational Standards have been fully met (even where health and safety issues are not the primary focus of the assessment event).
- Similarly, Assessors, Internal and External Verifiers must not conduct work-based assessments in contexts, and under conditions where they are dissatisfied with the health and safety arrangements in place.
- In such situations, the Assessor must give appropriate feedback to the candidate and, as necessary, to the appropriate employer's representative.

5.7. Expertise of Assessor and Verifiers

5.7.1 Assessors must:

- be registered by an approved centre
- be competent to make qualitative judgements about the units they are assessing This may be illustrated by:
 - the Assessor having achieved the award themselves and/or
 - having substantial current or recent (within the past 5 years) experience at a fully skilled level in the job function(s) and context(s) being assessed (including working with current legislation, regulations, procedures and technology). [This means that Assessors will be restricted to assessing a particular award/units in certain

job functions/contexts dependent upon the scope of their previous experience/qualifications].

- be in possession of the appropriate Assessor award(s)⁴
- carry out their duties in accordance with the National Occupational Standards for Assessment and Verification and current guidance on best assessment practice issued by the regulatory authorities.
- maintain evidence of appropriate development activities to ensure their assessment skills and occupational competence are current (CPD)

5.7.2 Internal Verifiers must:

- be registered by an approved centre
- be competent to make qualitative judgements about the units they are verifying. This may be illustrated by:
 - the Internal Verifier having achieved the award themselves **and/or**
 - having substantial current or recent (within the past 5 years) experience at a fully skilled level in the job function(s) being assessed (including working with current legislation, regulations, procedures and technology), **or**
 - being in a day to day line management or technical or quality assurance role in the function for which they are verifying (see Award Specific Guidance)
- be in possession of the appropriate Verifier award(s)⁴.
- carry out their duties in accordance with the National Occupational Standards for Assessment and Verification and current guidance on best assessment practice issued by the regulatory authorities.
- maintain evidence of appropriate development activities to ensure their verification skills and occupational understanding are current (CPD)

5.7.3 External Verifiers must:

- be registered with an approved Awarding Body
- be sufficiently familiar with and/or experienced in the relevant sector and/or context to be able to verify that candidate evidence has met the National Occupational Standards.
- be in possession of the appropriate External Verifier Award⁴.
- carry out their duties in accordance with the National Occupational Standards for Assessment and Verification and current guidance on best

⁴ These are currently referred to as the A/V-units. As a minimum requirement the Assessor must be in possession of Unit A1 (or previous designated units D32 and D33 and have evidence of upgrading to the A1 standard). Where a new centre wishes to deliver an award, or an existing centre wishes to deliver an award from a different functional area, then the centre may be approved if it can provide evidence that the potential Assessors satisfy the experience criteria (above) and are registered and actively undertaking the A1 unit. Internal Verifiers must be in possession of V1 (or previous designated Unit D34 with evidence of upgrading to the V1 standard). External Verifiers must be in possession of V2 (or previous designated Unit D35 with evidence of upgrading to the V2 standard).

verification practice issued by the regulatory authorities.

- maintain evidence of appropriate development activities to ensure their verification skills and occupational awareness are current (CPD)

5.7.4 Also, the Assessor/Verifier will have a working knowledge of awards and a full understanding of that part of the award for which they have responsibility⁵.

5.7.5 All Assessors and Internal Verifiers must be approved by the Awarding Body who must maintain records demonstrating how they meet the assessment strategy. The appointment of Assessors and Internal Verifiers may require the prior approval of the Awarding Body Executive.

5.7.6 Third party 'Witnesses' referred to in section 5.2 must also be competent to make judgements about the activity (ies) for which they are providing the testimony. **As the assessment decision lies with the Assessor, it is their responsibility to verify this and, where challenged, to justify their acceptance of third party 'witness testimony' to the Internal Verifier.**

5.8. External Quality Control

5.8.1 The external quality control of assessment is to be provided, in this highly regulated and safety critical sector, by the use of External Verifiers employing 'Enhanced External Verification' and 'Enhanced Internal Verification'.

5.8.2 Enhanced External Verification Strategy

This will involve the 'traditional' External Verification role and an annual Risk Assessment for all Approved Centres following current Regulatory Body guidance. In addition external verification must be supplemented by verifying a representative sample of candidates work from each Assessor. However, it will cover **all** Assessors in each Centre over an agreed period of time, and for **each** Assessor will always include:

- The Key Unit within the award (specified in the award specific guidance)
- Plus all evidence from simulations
- Plus a minimum of one other unit (agreed with the External Verifier)
- Plus the evidence of internal verification

5.8.3 Enhanced Internal Verification Strategy

The Internal Verifier must provide evidence of having verified:

- The Key Unit(s) for 100% of candidates (see Annex 1)
- Every simulation
- Additional Unit(s) - as specified in the Supplementary Assessment Guidance for each award (see Annex 1)

⁵ The Awarding Body will confirm this through examination of relevant CVs supported by relevant references.

- For each Assessor a sample of **all** units they are qualified to assess
 - Verification of **all** assessment methods and **all** assessment stages (e.g. induction; assessment planning; feedback to candidate)
- 5.8.4 The Key Unit in each award is identified by the sector, through EPIC (as the industry Standard Setting Body) and is identified in the Award Specific Guidance (Annex 1).
- 5.8.5 Awarding Bodies (ABs) will continue to ensure that external quality control for EPIC awards will be through the use of External Verifiers thus:
- External Verifiers will visit the centre as soon as possible after the centre has become approved to deliver the award. This initial External Verification will be shortly after the Centre Approval, candidate registrations and first assessments. This will normally be within 3 months and must be before the completion of any unit for any candidate. At this initial meeting, the External Verifier will meet a selection of Centre Staff to confirm understanding of the quality standards expected by the awarding body in terms of evidence requirements, assessments, documentation and support systems.
 - There will be at least two External Verification visits to each centre each year
 - Centres will have full access to the External Verifier for guidance on the assessment process and related matters.
 - External Verifier visits will review candidate evidence, the judgements made by workplace Assessors and Internal Verifiers, and the support systems required to deliver the awards. Only after the External Verifier is satisfied that the centre is meeting the quality standards will the first certificates be issued to candidates.
 - If centres are not able to meet the requirements then the External Verifier will state in writing what improvements are to be made and the date by which they are to be made. The External Verifier will then return to the centre on an agreed date to confirm that the centre has remedied the non-compliance. If the centre is not satisfied with the External Verifier's judgement then it can appeal to the awarding body according to the Awarding Body's published Appeals Procedure.
 - Centres will be required to conduct internal networked events attended by Assessors and Internal Verifiers. The purpose of these events will be to compare evidence sources and judgements made to ensure that assessments comply with best current practice. The frequency of these events will be determined by the size, scope and degree of risk of the centre. There will be a minimum of one event per year and

formal records will be maintained of attendees, agenda, communications with the Awarding Body and action points arising.

- In order to ensure that all centres are meeting the quality standards, the External Verifier will be responsible for comparing the work of different centres. The Awarding Body may facilitate this by convening meetings or events attended by staff from different centres, who will be expected to attend, to ensure that consistency is being maintained between centres. These meetings may take place at intervals determined by the awarding body who will also be responsible for the agenda.

The Approved Centre must retain all documentation and evidence related to all submissions for certification which have occurred since the last satisfactory External Verification visit.

Annex 1 Award Specific Assessment Guidance linked to Assessment Strategy to cover the EPIC Group of Awards

Plant Operations (Extractives) SVQ/NVQ at Level 2 (2005 NOS)

General Please note the following:

- This award will be implemented in accordance with the EPIC Assessment Strategy
- The following information should be read alongside the EPIC Assessment Strategy
- The following information is intended to complement the EPIC Assessment Strategy
- This strategy only applies to delivery of the Award in Extractive and Minerals Processing Industry sites
- Evidence of performance will normally be drawn from activities carried out regularly over a period of no less than **10 weeks**

1. External Quality Control

The Enhanced Internal and External Verification method of achieving External Quality Control will be adopted. It has been agreed that the unit requiring **100% Internal Verification** will be: **Unit PL4; Prepare Plant or Machinery for Operational Performance** (*ConstructionSkills Ref VR386*) **Plus, in each case, One further Unit**
In addition

Externally set **banks of questions** and answers to assess the 'essential' knowledge and understanding not demonstrated through performance alone. These should be available for each unit, delivered and marked internally and moderated externally by External Verifiers. This will serve to ensure the consistency of assessments of the essential knowledge and understanding.

2. Workplace Assessment

It has been agreed that **ALL** of the units are suitable for Workplace Assessment.

3. Supplementary Evidence

This evidence should be supported by additional supplementary evidence such as:

- Daily/Weekly Maintenance records (completed and signed by candidate)
- Accident/Incident Reports records (completed by candidate)
- Site diary / log records (completed by candidate)
- Current EPIC/QPTC Mobile Plant Competency Certificate (or equivalent)
- Witness Testimony (see Assessment Strategy)

4. Simulation

Simulation is discouraged for all parts of this award. In the event of a candidate being unable to generate workplace evidence for a particular Standard of Performance, then the use of this method of assessment must be agreed in advance with the External Verifier. (See Assessment Strategy)

5. Knowledge Assessment

- Responses to pre-set questions (see above regarding the use of set question banks and external quality control), and
- Responses to Assessor devised questions. (Assessor devised questions and responses to be recorded)

6. Assessor/Verifier Expertise

See EPIC Assessment Strategy.

Assessors will be restricted to assessing those plant classes for which they can demonstrate occupational competence.

All assessors should not be involved in the training of candidates. However, if this places an unrealistic assessment burden on the approved centre, it is acceptable, in instances where the assessor might hold a position of giving him/her a vested interest in the outcome of the assessment, for the awarding body to implement additional quality assurance measures to ensure that the integrity and objectivity of assessment will not be compromised.

Key/core skill signposting

A signposting exercise has been carried out to identify the key skills (core skills in Scotland) contained within the NVQ/SVQ units of competence. The following pages contain summary sheets resulting from this exercise.

The summaries demonstrate where, and at what level, key and core skills are explicit within the National Occupational Standards.

Unit No. VR 01 Conform to General Workplace Safety

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1 Communication – Level 2</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p>

Unit No. VR 02 Conform to Efficient Work Practices

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1 Communication – Level 2 Application of number – Level 1 Working with others – Level 1 Working with others – Level 2</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3 Numeracy – Access 3 Working with others – Access 3</p>

Unit No. VR 03 Move and Handle Resources

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1 Application of number – Level 1 Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3 Numeracy – Access 3 Working with others – Access 2</p>

Unit No. VR 386 Prepare Plant or Machinery for Operational Performance

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 387 Operate Plant or Machinery to Lift and Transfer Loads

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 388 Operate Plant or Machinery to Extract

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 389 Operate Plant or Machinery to Excavate

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 390 Operate Plant or Machinery to Construct and Form

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1 Communication – Level 2 Application of number – Level 1 Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3 Communication – Intermediate 1 Numeracy – Access 3 Working with others – Access 3</p>

Unit No. VR 391 Operate Plant or Machinery to Receive and Transport Loads

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1 Communication – Level 2 Application of number – Level 1 Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3 Communication – Intermediate 1 Numeracy – Access 3 Working with others – Access 3</p>

Unit No. VR 392 Operate Plant or Machinery for Accessing

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1 Communication – Level 2 Application of number – Level 1 Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3 Communication – Intermediate 1 Numeracy – Access 3 Working with others – Access 3</p>

Unit No. VR 393 Operate Plant or Machinery to Lay and Distribute

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1 Communication – Level 2 Application of number – Level 1 Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3 Communication – Intermediate 1 Numeracy – Access 3 Working with others – Access 3</p>

Unit No. VR 394 Operate Plant or Machinery to Compact

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 395 Operate Plant or Machinery to Process

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 396 Direct and Guide the Movement of Plant or Machinery

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 397 Arrange and Secure Loads

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 398 Operate Road Rail Plant

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 399 Operate Ancillary Equipment

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 400 Operate Specialised Powered Tools and Equipment

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 401 Set Out Secondary Dimensional Work Control

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Application of number – Level 2</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Numeracy – Intermediate 1</p> <p>Working with others – Access 3</p>

Unit No. VR 402 Slinging and Signalling the Movement of Loads

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 403 Plant Operations from a Barge

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>

Unit No. VR 404 Erect and Dismantle Plant (Cranes and Rigs)

Key skills	Core skills
<p><i>This unit may provide evidence for:</i></p> <p>Communication – Level 1</p> <p>Communication – Level 2</p> <p>Application of number – Level 1</p> <p>Working with others – Level 1</p>	<p><i>This unit may provide evidence for:</i></p> <p>Communication – Access 3</p> <p>Communication – Intermediate 1</p> <p>Numeracy – Access 3</p> <p>Working with others – Access 3</p>