

City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) (6574 40–49)

August 2022 (Version 1.0)

Qualification Handbook

Qualification at a glance

Subject area	Construction
City & Guilds number	6574
Age group approved	16-18, 19+
Entry requirements	None
Assessment types	Portfolio of evidence
Approvals	Qualification approval
Support materials	Centre Handbook and Candidate Logbook
Registration and certification	Consult the Walled Garden/Online Catalogue for last dates

Title and level	GLH	TQT	City & Guilds qualification number	Ofqual accreditation number
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Modular Pavement Construction (Construction)	253	350	6574-40	610/0709/2
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Laying Kerbs and Channels (Construction)	253	350	6574-41	610/0709/2
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Drainage Construction (Construction)	337	532	6574-42	610/0709/2
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Structural Concreting (Construction)	209	340	6574-43	610/0709/2
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations –Concreting (Construction)	359	570	6574-44	610/0709/2
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Construction Operations (Construction)	209	340	6574-45	610/0709/2
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – General Construction (Construction)	218	321	6574-46	610/0709/2
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Excavation and Reinstatement (Construction)	334	471	6574-47	610/0709/2
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Excavation (Construction)	281	381	6574-48	610/0709/2
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Reinstatement (Construction)	188	310	6574-49	610/0709/2

Version and date	Change detail	Section
v1 August 2022	Handbook created based on current CITB units (2022 v1). This Qualifications Handbook replaces and updates previous versions of Level 2 NVQ in Construction and Civil Engineering Operations – 6574 all pathways.	

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1 Introduction

This document tells you what you need to do to deliver the qualification:

Area	Description
Who is the qualification for?	This qualification is ideal for individuals who work as operatives in the construction and civil engineering sector, laying pavements, kerbs, channels and drainage, working with concrete or excavating holes or trenches.
What does the qualification cover?	<p>Health and safety as well as productive working practices are covered. This enables the learner to then choose one or more specialist pathways in the following specialist areas:</p> <ul style="list-style-type: none">• modular pavement• laying kerbs and channels• drainage• structural concreting• concreting• construction operations• general construction• excavation and reinstatement <p>Upon completion, learners show that they have the required skills and knowledge and are competent in this specialist trade area.</p>
What opportunities for progression are there?	<p>As the requirements of the occupational area are met by this level 2 qualification, there is no level 3 NVQ for construction and civil engineering operations. There are several qualifications at level 3 for Civil Engineering Technicians and a level 3 End-point assessment for Civil Engineering Technicians. In addition to this, after gaining work experience, there are opportunities to progress into plant operations related to construction operations and also occupational work supervision, management or technical support areas.</p> <p>This qualification prepares the learner for work in the construction industry, to work as operatives in the construction and civil engineering sector, with specific focus on laying pavements, kerbs, channels and drainage, working with concrete or excavating holes or trenches. Upon completion the learner can apply to CSCS, or other industry card schemes, to gain a recognised skills card.</p>

Area	Description
Who did we develop the qualification with?	This qualification is based on a structure, unit content and assessment strategy defined by the Construction Industry Training Board (CITB).
Is it part of an apprenticeship framework or initiative?	This qualification is competency based for the construction and civil engineering sector. It does not form part of a current apprenticeship standard but does enable learners to progress to a level 3 knowledge based qualification in Civil Engineering or the End-point assessment for Civil Engineering Technicians.

Structure

The City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) has ten pathways:

- City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) – Modular Pavement Construction (Construction)
- City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) – Laying Kerbs and Channels (Construction)
- City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) – Drainage Construction (Construction)
- City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) – Structural Concreting (Construction)
- City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) – Concreting (Construction)
- City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) – Construction Operations (Construction)
- City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) – General Construction (Construction)
- City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) – Excavation and Reinstatement (Construction)
- City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) – Excavation (Construction)
- City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations (Construction) – Reinstatement (Construction)

To achieve the **City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Modular Pavement Construction (Construction) (6574-40)** learners must complete six mandatory units.

City & Guilds unit no.	Unit title	Unit level
Mandatory		
103	Conforming to general health, safety and welfare in the workplace	1
219	Conforming to productive working practices in the workplace	2
295	Laying modular pavement in the workplace	2
367	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace	2
371	Setting out secondary dimensional work control in the workplace	2
738	Installing, maintaining and removing work area protection and safety equipment in the workplace	2

To achieve the **City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Laying Kerbs and Channels (Construction) (6574-41)** learners must complete six mandatory units.

City & Guilds unit no.	Unit title	Unit level
Mandatory		
103	Conforming to general health, safety and welfare in the workplace	1
219	Conforming to productive working practices in the workplace	2
367	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace	2
371	Setting out secondary dimensional work control in the workplace	2
737	Laying preformed kerbs and channels in the workplace	2
738	Installing, maintaining and removing work area protection and safety equipment in the workplace	2

To achieve the **City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Drainage Construction (Construction) (6574-42)** learners must complete six mandatory units.

City & Guilds unit no.	Unit title	Unit level
Mandatory		
103	Conforming to general health, safety and welfare in the workplace	1
219	Conforming to productive working practices in the workplace	2
371	Setting out secondary dimensional work control in the workplace	2
712	Installing drainage in the workplace	2
738	Installing, maintaining and removing work area protection and safety equipment in the workplace	2
746	Installing, maintaining and removing temporary excavation support in the workplace	2

To achieve the **City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Structural Concreting (6574-43)** learners must complete five mandatory units plus one optional unit.

City & Guilds unit no.	Unit title	Unit level
Mandatory		
103	Conforming to general health, safety and welfare in the workplace	1
219	Conforming to productive working practices in the workplace	2
225	Placing and compacting concrete	
367	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace	2
738	Installing, maintaining and removing work area protection and safety equipment in the workplace	2
Optional		
104	Preparing, mixing and distributing concrete and mortars in the workplace	1
226	Erecting and dismantling access/working platforms in the workplace	2
317	Preparing and operating forward tipping dumpers to receive, transport and discharge materials in the workplace	2
332	Preparing and operating ride-on rollers to compact materials in the workplace	2
367	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace	2
369	Moving, handling and storing resources in the workplace	2
734	Reinstating ground condition in the workplace	2
740	Identifying and marking the location of utilities apparatus and sub-structures in the workplace	2
741	Controlling, directing and guiding the operation of plant or machinery in the workplace	2
742	Locating and excavating to expose buried utility services in the workplace	2
743	Cutting, drilling and shaping construction related materials in the workplace	1
744	Laying, placing or applying construction related materials in the workplace	1
745	Preparing and mixing construction related materials in the workplace	1
746	Installing, maintaining and removing temporary excavation support in the workplace	2
747	Installing, constructing, maintaining, dismantling and removing temporary works in the workplace	2

To achieve the **City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Concreting (Construction) (6574-44)** learners must complete five mandatory units plus one optional unit.

City & Guilds unit no.	Unit title	Unit level
Mandatory		
103	Conforming to general health, safety and welfare in the workplace	1
219	Conforming to productive working practices in the workplace	2
613	Placing and finishing concrete in the workplace	2
736	Erecting and striking proprietary formwork in the workplace	2
738	Installing, maintaining and removing work area protection and safety equipment in the workplace	2
Optional		
104	Preparing, mixing and distributing concrete and mortars in the workplace	1
225	Placing and compacting concrete	2
226	Erecting and dismantling access/working platforms in the workplace	2
317	Preparing and operating forward tipping dumpers to receive, transport and discharge materials in the workplace	2
332	Preparing and operating ride-on rollers to compact materials in the workplace	2
363	Slinging and hand signalling the movement of suspended loads in the workplace	2
367	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace	2
369	Moving, handling and storing resources in the workplace	2
734	Reinstating ground condition in the workplace	2
735	Pouring concrete to form structures in the workplace	2
740	Identifying and marking the location of utilities apparatus and sub-structures in the workplace	2
741	Controlling, directing and guiding the operation of plant or machinery in the workplace	2
742	Locating and excavating to expose buried utility services in the workplace	2
743	Cutting, drilling and shaping construction related materials in the workplace	1
744	Laying, placing or applying construction related materials in the workplace	1

745	Preparing and mixing construction related materials in the workplace	1
746	Installing, maintaining and removing temporary excavation support in the workplace	2
747	Installing, constructing, maintaining, dismantling and removing temporary works in the workplace	2

To achieve the **City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Construction Operations (6574-45)** learners must complete four mandatory units plus two optional units (one from Optional A and one from Optional B).

City & Guilds unit no.	Unit title	Unit level
Mandatory		
103	Conforming to general health, safety and welfare in the workplace	1
219	Conforming to productive working practices in the workplace	2
369	Moving, handling and storing resources in the workplace	2
738	Installing, maintaining and removing work area protection and safety equipment in the workplace	2
Optional A		
225	Placing and compacting concrete	2
712	Installing drainage in the workplace	2
Optional B		
104	Preparing, mixing and distributing concrete and mortars in the workplace	1
226	Erecting and dismantling access/working platforms in the workplace	2
317	Preparing and operating forward tipping dumpers to receive, transport and discharge materials in the workplace	2
332	Preparing and operating ride-on rollers to compact materials in the workplace	2
367	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace	2
734	Reinstating ground condition in the workplace	2
740	Identifying and marking the location of utilities apparatus and sub-structures in the workplace	2
741	Controlling, directing and guiding the operation of plant or machinery in the workplace	2
742	Locating and excavating to expose buried utility services in the workplace	2
743	Cutting, drilling and shaping construction related materials in the workplace	1
744	Laying, placing or applying construction related materials in the workplace	1

745	Preparing and mixing construction related materials in the workplace	1
746	Installing, maintaining and removing temporary excavation support in the workplace	2
747	Installing, constructing, maintaining, dismantling and removing temporary works in the workplace	2

To achieve the **City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – General Construction (Construction) (6574-46)** learners must complete three mandatory units plus one optional unit.

City & Guilds unit no.	Unit title	Unit level
Mandatory		
103	Conforming to general health, safety and welfare in the workplace	1
219	Conforming to productive working practices in the workplace	2
738	Installing, maintaining and removing work area protection and safety equipment in the workplace	2
Optional		
613	Placing and finishing concrete in the workplace	2
712	Installing drainage in the workplace	2

To achieve the **City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Excavation and Reinstatement (6574-47)** learners must complete five mandatory units plus two optional units.

City & Guilds unit no.	Unit title	Unit level
Mandatory		
103	Conforming to general health, safety and welfare in the workplace	1
219	Conforming to productive working practices in the workplace	2
734	Reinstating ground condition in the workplace	2
738	Installing, maintaining and removing work area protection and safety equipment in the workplace	2
739	Forming and finishing excavations manually in the workplace	2
Optional		
367	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace	2
740	Identifying and marking the location of utilities apparatus and sub-structures in the workplace	2
741	Controlling, directing and guiding the operation of plant or machinery in the workplace	2
742	Locating and excavating to expose buried utility services in the workplace	2

To achieve the **City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Excavation (6574-48)** learners must complete four mandatory units plus two optional units.

City & Guilds unit no.	Unit title	Unit level
Mandatory		
103	Conforming to general health, safety and welfare in the workplace	1
219	Conforming to productive working practices in the workplace	2
738	Installing, maintaining and removing work area protection and safety equipment in the workplace	2
739	Forming and finishing excavations manually in the workplace	2
Optional		
367	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace	2
740	Identifying and marking the location of utilities apparatus and sub-structures in the workplace	2
741	Controlling, directing and guiding the operation of plant or machinery in the workplace	2
742	Locating and excavating to expose buried utility services in the workplace	2

To achieve the **City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Reinstatement (6574-49)** learners must complete four mandatory units plus one optional unit.

City & Guilds unit no.	Unit title	Unit level
Mandatory		
103	Conforming to general health, safety and welfare in the workplace	1
219	Conforming to productive working practices in the workplace	2
734	Reinstating ground condition in the workplace	2
738	Installing, maintaining and removing work area protection and safety equipment in the workplace	2
Optional		
367	Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace	2
741	Controlling, directing and guiding the operation of plant or machinery in the workplace	2

Total Qualification Time

Total qualification time (TQT) is the total amount of time, in hours, expected to be spent by a Learner to achieve a qualification. Guided learning, also expressed in hours, is time spent under the direct supervision of a provider of education or training (including assessment). Guided learning contributes to TQT.

TQT and GL values are estimates.

Title and level	GLH	TQT
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Modular Pavement Construction (Construction)	253	350
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Laying Kerbs and Channels (Construction)	253	350
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Drainage Construction (Construction)	337	532
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Structural Concreting (Construction)	209	340
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Concreting (Construction)	359	570
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Construction Operations (Construction)	209	340
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – General Construction (Construction)	218	321
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Excavation and Reinstatement (Construction)	334	471
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Excavation (Construction)	281	381
City & Guilds Level 2 NVQ in Construction and Civil Engineering Operations – Reinstatement (Construction)	188	310

2 Centre requirements

Approval

The approval process for Construction qualifications is available at our website. Please visit www.cityandguilds.com/construction for further information.

All centres previously approved to offer the 6574-21-28 qualifications, will be given automatic approval to offer the updated 6574-40-49.

Centres not previously offering these qualifications will need to apply for qualification approval through the standard approval process.

To offer this qualification, **new** centres will need to gain both centre and qualification approval. Please refer to the document [Quality Assurance Standards: Centre Approval Process](#) for further information.

Centre staff should familiarise themselves with the structure, content and assessment requirements of the qualifications before designing a course programme.

Internal quality assurance

Approved centres must have effective quality assurance systems to ensure optimum delivery and assessment of qualifications.

Quality assurance includes initial centre approval, qualification approval criteria and the centre's own internal procedures for monitoring quality. Centres are responsible for internal quality assurance and City & Guilds is responsible for external quality assurance.

Standards and rigorous quality assurance are maintained by the use of:

- internal quality assurance
- City & Guilds external quality assurance.

In order to carry out the quality assurance role, Internal Quality Assurers (IQAs) must be technically knowledgeable and are expected to hold TAQA and/or equivalent qualifications.

Additionally, those involved in internal quality assurance must:

- have experience in quality management or internal quality assurance
- be familiar with the occupation and technical content covered within the qualification
- be familiar with City and Guilds Quality Assurance Standards.

Resource requirements

Centre staffing

Trainers, assessors and IQAs must be able to demonstrate that they meet the following occupational expertise requirements.

They should:

- be occupationally competent in the areas for which they are delivering training and/or have experience of providing training. This knowledge must be to the same level as the training being delivered
- have a thorough understanding of the national occupational standards/assessment units for the qualifications they are assessing or quality assuring
- hold TAQA and/or equivalent qualifications
- show experience and working knowledge of the assessment and quality assurance processes relating to the context in which they are working
- be technically knowledgeable in the area(s) for which they are delivering training/assessing, with appropriate qualifications
- have credible experience of providing training and assessments
- demonstrate a commitment to continuing professional development and to keeping abreast of the changing environment and practices in confined spaces
- centres must ensure that suitable first aid arrangements are in place at the practical training/assessment facility.

Centre staff may undertake more than one role, e.g. tutor and assessor or internal verifier, but cannot internally verify their own assessments.

Learner entry requirements

City & Guilds does not set entry requirements for these qualifications. However, centres must ensure that candidates have the potential and opportunity to gain the qualifications successfully.

Age restrictions

City & Guilds cannot accept any registrations for learners under 16 as these qualifications are not approved for learners under 16.

3 Delivering the qualification

Initial assessment and induction

An initial assessment of each candidate should be made before the start of their programme to identify:

- if the learner has any specific training needs
- any support and guidance they may need when working towards their qualification
- any units they have already completed which are relevant to the qualification
- confirm it is the appropriate type and level of qualification for their job role and responsibilities
- any medical conditions.

We recommend that centres provide an induction programme, so that the learner fully understands the requirements of the qualification, their responsibilities as a learner, and the responsibilities of the centre. This information can be recorded on a learning contract.

Support materials

The following resources are available for these qualifications:

Description	How to access
Assessment packs	www.cityandguilds.com
Answer packs	www.cityandguilds.com
Centre resource document	www.cityandguilds.com

Recording documents

Learners and centres may decide to use a paper-based or electronic method of recording evidence. City & Guilds endorses **Learning Assistant**, our ePortfolio system. Learning Assistant is an easy-to-use and secure online tool to support and evidence learners' progress towards achieving qualifications. Further details are available at:

www.cityandguilds.com/eportfolios

City & Guilds has developed a set of *Recording forms* for new and existing centres to use as appropriate. *Recording forms* include Practical Observation Checklists and Individual Candidate Summary and Feedback Sheets which have been developed for use by assessors to record assessment decisions and provide feedback. These are available on the City & Guilds website.

Although new centres are expected to use these forms, centres may devise or customise alternative forms, which must be approved for use by the external quality assurer before they are used by candidates and assessors at the centre. Amendable (MS Word) versions of the forms are available on the City & Guilds website.

4 Assessment

Summary of assessment methods

As defined by the CITB Assessment Strategy learners must have a completed portfolio of evidence for each unit.

Aspects to be assessed through performance in the workplace

Direct evidence produced through normal performance in the workplace is the primary source for meeting the requirements. This includes naturally occurring documentary evidence (hard copy and electronic), direct observation of activities and witness testimony as relevant. Individual units will specify any exceptions to this position.

Workplace evidence must be supported by the required evidence of knowledge and understanding. This evidence may be identified by:

- questioning the candidate
- recognised industry education and training programme assessment or professional interview assessment that has been matched to NOS requirements
- performance evidence.

A holistic approach towards the collection of evidence should be encouraged. The focus should be on assessing activities generated by the whole work experience rather than focusing on specific tasks. This would show how evidence requirements could be met across the qualification to make the most efficient use of evidence.

Recognition of prior learning (RPL)

Recognition of prior learning means using a person's previous experience or qualifications, which have already been achieved, to contribute to a new qualification.

For this qualification, RPL is allowed and is not sector specific.

The assessment materials are password protected and can be found on the City & Guilds website:

<https://www.cityandguilds.com/qualifications-and-apprenticeships/construction/construction/6574-construction-operations#tab=information>

The passwords are available to registered centres on the Walled Garden.

5 Units

Structure of the units

These units each have the following:

- City & Guilds reference number
- title
- level
- guided learning hours (GLH)
- unit aim
- learning outcomes, which are comprised of a number of assessment criteria
- notes for guidance.

Behaviours	
When performing to the unit standards the learner is likely to demonstrate the following behaviours.	1 Work safely: Consider the safety of yourself and those around you, challenge unsafe behaviour.
	2 Effective communication: Oral, written, electronic, listening, body language, presentation.
	3 Respect: Apply equality, diversity and inclusion in dealing with others.
	4 Team work: Work effectively and safely with others with limited supervision.
	5 Independent working: Take responsibility for safe completion of your own work.
	6 Logical thinking: Use clear and valid reasoning when making decisions to safely undertake work instructions.
	7 Working effectively: Undertake the work in a reliable, safe and productive manner.
	8 Time management: Use own time effectively to complete the work instructions to schedule, take the time to be safe.
	9 Adaptability: Be able to adjust to changes to the work instructions, put safety first.

Unit 103

Conforming to general health, safety and welfare in the workplace

Unit level:	1
GLH:	17
Unit aim:	To raise awareness of relevant current statutory requirements and official guidance and responsibilities – to self and others – relating to workplace health, safety and welfare, personal behaviour and security in the workplace.

Learning outcome

The learner will:

- 1 comply with all workplace health, safety and welfare legislation requirements.

Assessment criteria

The learner can:

- 1.1 comply with information from workplace inductions and any health, safety and welfare briefings attended relevant to the occupational area
- 1.2 use health and safety control equipment safely to carry out the activity in accordance with legislation and organisational requirements
- 1.3 comply with statutory requirements, safety notices and warning notices displayed within the workplace and/or on equipment
- 1.4 state why and when health and safety control equipment, identified by the principles of protection, should be used relating to types, purpose and limitations of each type, the work situation, occupational use and the general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
- 1.5 state how the health and safety control equipment relevant to the work should be used in accordance with the given instructions
- 1.6 state which types of health, safety and welfare legislation, notices and warning signs are relevant to the occupational area and associated equipment
- 1.7 state why health, safety and welfare legislation, notices and warning signs are relevant to the occupational area
- 1.8 state how to comply with control measures that have been identified by risk assessments and safe systems of work.

Learning outcome

The learner will:

- 2 recognise hazards associated with the workplace that have not been previously controlled and report them in accordance with organisational procedures.

Assessment criteria

The learner can:

- 2.1 report any hazards created by changing circumstances within the workplace in accordance with organisational procedures
- 2.2 list typical hazards associated with the work environment and occupational area in relation to resources, substances, asbestos, equipment, obstructions, storage, services and work activities
- 2.3 list the current Health and Safety Executive top ten safety risks
- 2.4 list the current Health and Safety Executive top five health risks
- 2.5 state how changing circumstances within the workplace could cause hazards
- 2.6 state the methods used for reporting changed circumstances, hazards and incidents in the workplace.

Learning outcome

The learner will:

- 3 comply with organisational policies and procedures to contribute to health, safety and welfare.

Assessment criteria

The learner can:

- 3.1 interpret and comply with given instructions to maintain safe systems of work and quality working practices
- 3.2 contribute to discussions by offering/providing feedback relating to health, safety and welfare
- 3.3 contribute to the maintenance of workplace welfare facilities in accordance with workplace welfare procedures
- 3.4 safely store health and safety control equipment in accordance with given instructions
- 3.5 dispose of waste and/or consumable items in accordance with legislation
- 3.6 state the organisational policies and procedures for health, safety and welfare, in relation to:
 - a dealing with accidents and emergencies associated with the work and environment
 - b methods of receiving or sourcing information
 - c reporting
 - d stopping work
 - e evacuation
 - f fire risks and safe exit procedures
 - g consultation and feedback

- 3.7 state the appropriate types of fire extinguishers relevant to the work
 - 3.8 state how and when the different types of fire extinguishers are used in accordance with legislation and official guidance.
-

Learning outcome

The learner will:

- 4 work responsibly to contribute to workplace health, safety and welfare whilst carrying out work in the relevant occupational area.

Assessment criteria

The learner can:

- 4.1 demonstrate behaviour which shows personal responsibility for general workplace health, safety and welfare
 - 4.2 state how personal behaviour demonstrates responsibility for general workplace health, safety and welfare, in relation to:
 - a recognising when to stop work in the face of serious and imminent danger to self and/or others
 - b contributing to discussions and providing feedback
 - c reporting changed circumstances and incidents in the workplace
 - d complying with the environmental requirements of the workplace
 - 4.3 give examples of how the behaviour and actions of individuals could affect others within the workplace.
-

Learning outcome

The learner will:

- 5 comply with and support all organisational security arrangements and approved procedures.

Assessment criteria

The learner can:

- 5.1 provide appropriate support for security arrangements in accordance with approved procedures:
 - a during the working day
 - b on completion of the day's work
 - c for unauthorised personnel (other operatives and the general public)
 - d for theft
- 5.2 state how security arrangements are implemented in relation to the workplace, the general public, site personnel and resources.

Unit 103

Conforming to general health, safety and welfare in the workplace

Supporting Information

This unit must be assessed in a work environment, in accordance with the:

- Additional Requirements for Qualifications using the title NVQ in RQF
- ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.

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

Workplace evidence of skills cannot be simulated.

Unit 104

Preparing, mixing and distributing concrete and mortars in the workplace

Unit level:	1
GLH:	43
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• prepare and mix concrete and mortars.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when placing and compacting concrete.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a) drawings
 - b) specifications
 - c) current legislation
 - d) schedules
 - e) method statements
 - f) risk assessments
 - g) manufacturers' information
 - h) oral and written instructions
 - i) sketches
 - j) electronic data
 - k) official guidance
 - l) current regulations associated with preparing, mixing and distributing concrete and mortars

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when preparing, mixing and distributing concrete and mortars.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents and health hazards, whilst working:
 - a in the workplace
 - b below ground level
 - c at height
 - d with tools and equipment
 - e with materials and substances
 - f with movement/storage of materials and by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company, operative and vehicles
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports.

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when preparing, mixing and distributing concrete and mortars.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely to carry out the activity in accordance with current legislation and organisational requirements when preparing, mixing and distributing concrete and mortars
- 3.2 demonstrate compliance with given information and relevant legislation when preparing, mixing and distributing concrete and mortars in relation to the following:
 - a safe use of access equipment
 - b safe use, storage and handling of materials, tools and equipment
 - c specific risks to health
- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used, relating to preparing, mixing and distributing concrete and mortars, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)

- c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given instructions
- 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards.
-

Learning outcome

The learner will:

4. select the required quantity and quality of resources for the methods of work to prepare, mix and distribute concrete and mortars.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components, tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
- a aggregate, sand, lime, cement, water, additives
 - b hand and power tools, mixing plant transportation and distribution equipment
- 4.3 describe how to confirm that resources and materials conform with the specification
- 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.6 describe any potential hazards associated with the resources and methods of work
- 4.7 describe how to calculate quantity, volume, length, width, area and wastage of materials associated with the method and procedure to prepare, mix and distribute concrete and mortars.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when preparing, mixing and distributing concrete and mortars.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
- 5.2 maintain a clear and tidy work space
- 5.3 dispose of waste in accordance with current legislation

- 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
 - 5.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when preparing, mixing and distributing concrete and mortars.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time
 - 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of productivity targets and timescales
 - b. how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to prepare, mix and distribute concrete and mortars to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when preparing, mixing and distributing concrete and mortars:
 - a gauging
 - b mixing
 - c distributing
- 7.2 use and maintain hand and power tools and mixing plant and equipment
- 7.3 gauge and mix concrete and/or mortars and distribute to given working instructions
- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a gauge and mix concrete and mortars by hand
 - b gauge and mix concrete and mortars mechanically
 - c carry out pre-use checks on mechanical mixers
 - d recognise types of concrete and mortar
 - e maintain consistency of mixes for strength, colour and texture

- f recognise and determine when specialist skill and knowledge are required and report accordingly
 - g work with, around and in close proximity to plant and machinery
 - h transport and distribute concrete and mortars
 - i use hand and power tools, mixing plant and equipment
 - j work at height
 - k use access equipment
- 7.5 state the needs of other occupations and how to communicate effectively within a team when preparing, mixing and distributing concrete and mortars
- 7.6 describe how to maintain the tools and equipment used when preparing, mixing and distributing concrete and mortars.

Unit 104

Preparing, mixing and distributing concrete and mortars in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

Unit 219

Conforming to productive working practices in the workplace

Unit level:	2
GLH:	20
Unit aim:	To raise awareness of productive working practices including: <ul style="list-style-type: none">• communication with line management, colleagues and customers• interpreting information• planning and carrying out work practices• working with others.

Learning outcome

The learner will:

- 1 communicate with others to establish productive work practices.

Assessment criteria

The learner can:

- 1.1 communicate in an appropriate manner with line management, colleagues and/or customers to ensure that work is carried out productively
- 1.2 describe the different methods of communicating with line management, colleagues and customers
- 1.3 describe how to use different methods of communication to ensure that the work carried out is productive.

Learning outcome

The learner will:

- 2 follow organisational procedures to plan the sequence of work.

Assessment criteria

The learner can:

- 2.1 interpret relevant information from organisational procedures in order to plan the sequence of work
- 2.2 plan the sequence of work, using appropriate resources, in accordance with organisational procedures to ensure work is completed productively
- 2.3 describe how organisational procedures are applied to ensure work is planned and carried out productively, in relation to:

- a using resources for own and other's work requirements
 - b allocating appropriate work to employees
 - c organising the work sequence
 - d reducing carbon emissions
- 2.4 describe how to contribute to zero/low carbon work outcomes within the built environment.
-

Learning outcome

The learner will:

- 3 maintain relevant records in accordance with the organisational procedures.

Assessment criteria

The learner can:

- 3.1 complete relevant documentation according to the occupation as required by the organisation
 - 3.2 describe how to complete and maintain documentation in accordance with organisational procedures, in relation to:
 - a job cards
 - b worksheets
 - c material/resource lists
 - d timesheets
 - 3.3 explain the reasons for ensuring documentation is completed clearly and within given timescales.
-

Learning outcome

The learner will:

- 4 maintain good working relationships when conforming to productive working practices.

Assessment criteria

The learner can:

- 4.1 carry out work productively, to the agreed specification, in conjunction with line management, colleagues, customers and/or other relevant people involved in the work to maintain good working relationships
- 4.2 apply the principles of equality and diversity and respect the needs of individuals when communicating and working with others
- 4.3 describe how to maintain good working relationships, in relation to:
 - a individuals
 - b customer and operative
 - c operative and line management
 - d own and other occupations
- 4.4 describe why it is important to work effectively with line management, colleagues and customers

- 4.5 describe how working relationships could have an effect on productive working
- 4.6 describe how to apply principles of equality and diversity when communicating and working with others.

Unit 219

Conforming to productive working practices in the workplace

Supporting Information

This unit must be assessed in a work environment, in accordance with the:

- Additional Requirements for Qualifications using the title NVQ in RQF
- ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.

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

Workplace evidence of skills cannot be simulated.

Unit 225

Placing and compacting concrete

Unit level:	2
GLH:	47
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• place and finish concrete in the workplace.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when placing and compacting concrete.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments
 - f manufacturers' information
 - g oral and written instructions

- h current regulations governing buildings
 - i official guidance associated with the placement and compaction of concrete
-

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when placing and compacting concrete.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with the movement and storage of materials by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company, operative and vehicles.
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports
- 2.4 describe the types of fire extinguishers available and describe how and when they are used:
 - a water
 - b CO2
 - c foam
 - d powder

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when placing and compacting concrete.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when placing and compacting concrete
- 3.2 demonstrate compliance with given information and relevant legislation when placing and compacting concrete in relation to the following:
 - a safe use of access equipment
 - b safe use, storage and handling of materials, tools and equipment

- c specific risks to health
 - 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used, relating to placing and compacting concrete, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
 - 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given instructions
 - 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with:
 - a fires, spillages, injuries
 - b other task-related hazards
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to place and compact concrete.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a materials, components and fixings
 - b tools and equipment
 - 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a aggregates, cements, concrete, reinforcement, membranes, release agents, anti-heave materials, moulds, additives and retardants
 - b hand tools portable power tools and equipment, slump test equipment, skips, compaction, equipment, slump test equipment, skips, compaction equipment, poker vibrator, tampers, floats and trowels.
 - 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.5 describe any potential hazards associated with the resources and methods of work
 - 4.6 describe the methods of calculating quantity, length, area and wastage associated with the method and procedure to place and compact concrete.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when placing and finishing concrete.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
 - 5.2 maintain a clean and work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - a general workplace activities
 - b other occupations
 - c adverse weather conditions
 - 5.5 explain why the disposal of waste should be carried out safely in accordance with:
 - a environmental responsibilities
 - b organisational procedures
 - c manufacturers' information
 - d statutory regulations
 - e official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when placing and compacting concrete.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time
 - 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of progress charts, timetables and estimated times
 - b organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to place and compact concrete to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when placing and compacting concrete:
 - a measuring
 - b marking out
 - c inspecting
 - d receiving
 - e handling
 - f transporting
 - g placing

- h spreading
- i levelling
- j vibrating
- k compacting
- l testing
- m protecting

7.2 use and maintain hand tools, portable power tools, plant or machinery and ancillary equipment

7.3 place, lay and compact concrete to given working instructions using three of the following placement methods:

- a chute
- b elephant's trunk
- c skip
- d pump
- e mono-rail
- f manually

7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:

- a identify installation quality requirements
- b conform to agreed specification
- c confirm integrity of formwork and temporary supports
- d handle and transport concrete
- e place concrete using shuts, elephant's trunk, skip, pump, mono-rail and manually
- f visually assess the quality of the concrete prior to and during pouring and placement
- g extract samples for testing
- h work with, around and in close proximity to plant and machinery
- i direct and guide the operations and movement of plant and machinery
- j compact and finish concrete
- k protect concrete to assist the curing process
- l apply curing accelerants and aids
- m recognise requirements for working with concretes containing additives for waterproofing and retardants
- n recognise and determine when additional specialist skills and knowledge are required and report accordingly
- o determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
- p use hand tools, portable power tools, plant, machinery and equipment
- q work at height
- r use access equipment

7.5 describe the needs of other occupations and how to effectively communicate within a team when placing and compacting concrete

7.6 describe how to maintain the tools and equipment used when placing and compacting concrete.

Unit 225 Placing and compacting concrete

Supporting Information

This unit must be assessed in a work environment, in accordance with the:

- Additional Requirements for Qualifications using the title NVQ
- ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.

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

Workplace evidence of skills cannot be simulated.

Unit 226

Erecting and dismantling access/working platforms in the workplace

Unit level:	2
GLH:	37
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• erect and dismantle access/working platforms.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when erecting and dismantling access/working platforms.

Assessment criteria

The learner can:

- 1.1 interpret and extract information from specifications, method statements, risk assessments and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statement
- 1.3 state the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a specifications
 - b current legislation
 - c method statements
 - d risk assessments
 - e manufacturers' information.

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when erecting and dismantling access/working platforms.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities under current legislation and official guidance whilst working:
 - a in the workplace
 - b at height
 - c in confined areas
 - d with tools and equipment
 - e with movement/storage of materials and by manual handling
 - 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
 - 2.3 state what the accident reporting procedures are and who is responsible for making reports.
-

Learning outcome

The learner will:

- 3 maintain safe working practices when erecting and dismantling access/working platforms.

Assessment criteria

The learner can:

- 3.1 use personal protective equipment (PPE) and access equipment safely to carry out the activity in accordance with legislation and organisational requirements when erecting and dismantling access/working platforms
 - 3.2 explain why, when and how personal protective equipment (PPE) should be used, relating to erecting and dismantling access/working platforms, and the types, purpose and limitations of each type
 - 3.3 state how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to erect and dismantle access/working platforms.

Assessment criteria

The learner can:

- 4.1 describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to:
 - a ladders/crawler boards
 - b stepladders/platform steps

- c trestles
 - d proprietary staging/podiums
 - e proprietary towers
 - f mobile scaffold towers
 - g protection equipment and notices
 - h tools and ancillary equipment
- 4.2 select resources associated with own work in relation to materials, components, tools and equipment
- 4.3 state how the resources should be used correctly, how problems associated with the resources are reported and how the organisational procedures are used
- 4.4 outline potential hazards associated with the resources and method of work
- 4.5 describe how to calculate quantity of equipment required associated with the method/procedure to erect and dismantle access equipment/working platforms.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when erecting and dismantling access/working platforms.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage
- 5.2 minimise damage and maintain a clean work space
- 5.3 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
- 5.4 dispose of waste in accordance with legislation
- 5.5 state why the disposal of waste should be carried out in relation to the work.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when erecting and dismantling access/working platforms.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time
- 6.2 state the purpose of the work programme and explain why deadlines should be kept in relation to organisational procedures for reporting circumstances which will affect the work programme.

Learning outcome

The learner will:

- 7 comply with the given contract information to erect and dismantle access/ working platforms to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when erecting and dismantling access/working platforms:
 - a moving
 - b positioning/erecting
 - c securing
 - d checking
 - e dismantling
 - f removing
- 7.2 erect, dismantle and store two of the following access equipment to given access regulations:
 - a ladders/crawler boards
 - b stepladders/platform steps
 - c proprietary towers
 - d trestle platforms
 - e mobile scaffold towers
 - f proprietary staging/podiums
- 7.3 describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a provide protection to the work area
 - b establish a base for equipment
 - c erect proprietary access equipment to manufacturer's instructions suitable for the work
 - d erect non-proprietary access equipment suitable for the work
 - e place protective screens and notices
 - f check/monitor equipment during the period of use
 - g dismantle and store access equipment
 - h use tools and equipment
 - i work at height
- 7.4 safely use and store materials, hand tools and ancillary equipment
- 7.5 state the needs of other occupations and how to communicate within a team when erecting and dismantling access/working platforms
- 7.6 describe how to maintain the tools and equipment used when erecting and dismantling access/working platforms.

Unit 226

Erecting and dismantling access/working platforms in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the following endorsements:

- construction and civil engineering operations
- plus two or more of the following:
 - ladders/crawler boards
 - step ladders/platform steps
 - proprietary towers
 - trestle platforms
 - mobile scaffold towers
 - proprietary staging/podiums.

Unit 295

Laying modular pavement in the workplace

Unit level:	2
GLH:	85
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select materials, components and equipment• prepare and lay modular pavement manually or by machine.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when laying modular pavement.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, risk assessments, method statements, specifications, schedules and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d risk assessments
 - e method statements
 - f manufacturers' information and
 - g regulations governing the laying of modular pavement.

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when laying modular pavement.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d with tools and equipment
 - e with materials and substances
 - f with movement and storage of materials and
 - g by manual handling and mechanical lifting
 - 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
 - 2.3 explain what the accident reporting procedures are and who is responsible for making reports.
-

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when laying modular pavement.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when laying modular pavement
 - 3.2 demonstrate compliance with given information and relevant legislation when laying modular pavement in relation to the following:
 - a safe use, storage and handling of materials, tools and equipment
 - b specific risks to health
 - 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used, relating to laying modular pavement, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
 - 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to lay modular pavement.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials and components, and tools and equipment
 - 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a graded granular material, mortar and concrete
 - b blocks, stone setts, bricks, flags, natural stone
 - c kerbs, channels, drainage
 - d hand tools, power tools and equipment
 - 4.3 describe how to confirm that the resources and materials conform to the specification
 - 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.6 describe any potential hazards associated with the resources and methods of work
 - 4.7 describe how to identify by calculation, quantity, length, area, volume and wastage associated with the method and procedure to lay modular paving.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when laying modular pavement.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
 - 5.2 maintain a clear and tidy work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
 - 5.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when laying modular pavement.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time
- 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of productivity targets and time scales

- b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to lay modular pavement to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when laying modular pavement:
 - a setting out
 - b preparing
 - c measuring
 - d marking out
 - e cutting
 - f placing
 - g laying
 - h levelling
 - i aligning
 - j compacting
 - k finishing
- 7.2 use and maintain hand tools, power tools and ancillary equipment
- 7.3 place bedding and lay modular paving manually and/or by machine to given working instructions, to produce a bound or unbound pavement using at least two of the following:
 - a block paving
 - b brick paving
 - c stone and/or concrete setts
 - d flags
 - e natural stone rough cut (riven and/or cropped)
 - f natural stone uniformly cut (sawn in dimension)
- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a confirm the area and location of work, the operations, safety and security requirements including temporary traffic management and immediate area protection
 - b confirm the type of block, brick, sett, flag and natural stone modular paving unit, bedding and jointing materials
 - c conform to the agreed specifications
 - d identify the differences between rigid (bound) and flexible (unbound) pavements
 - e inspect and confirm substrate as acceptable for laying modular paving to given specification
 - f set out the area and prepare substrate for modular pavement construction
 - g install kerbs, channels, edgings and drainage
 - h mark and cut modular paving
 - i lay modular block, brick, sett, flag and natural stone paving manually and by machine to the required design, pattern, levels and stability

- j work around street furniture and ironwork
 - k work with, in close proximity to and around plant or machinery
 - l monitor and check work against specification(s)
 - m lift modular paving for removal, maintenance and repair
 - n maintain and repair modular paving to match existing design functions
 - o return infrastructure to operational status
 - p recognise and determine when specialist skills and knowledge are required and report accordingly
 - q use hand tools, power tools and equipment
- 7.5 describe the needs of other occupations and how to effectively communicate within a team when laying modular pavement
- 7.6 describe how to maintain the tools and equipment used when laying modular pavement.

Unit 295

Laying modular pavement in the workplace

Supporting Information

This unit must be assessed in a work environment, in accordance with the:

- Additional Requirements for Qualifications using the title NVQ in RQF
- ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against one of following endorsements:

- block paving
- brick paving
- stone/concrete setts
- flags
- natural stone rough cut
- natural stone uniformly cut.

Unit 317

Preparing and operating forward tipping dumpers to receive, transport and discharge materials in the workplace

Unit level:	2
GLH:	63
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• organise and communicate effectively with others• adopt safe and healthy working practices• select resources and methods of work• prepare and operate forward tipping dumpers to receive, transport and discharge materials.

Learning outcome

The learner will:

- 1 interpret the given information relating to the preparation and use of forward tipping dumpers to carry out transporting and discharging operations.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments
 - f manufacturers' information
 - g current regulations governing the operation of forward tipping dumpers.

Learning outcome

The learner will:

- 2 organise with others the sequence and operation in which transporting and discharging operations using forward tipping dumpers are to be carried out.

Assessment criteria

The learner can:

- 2.1 organise the work according to given information or instructions
- 2.2 describe how to communicate ideas between team members
- 2.3 organise and communicate with team members and other associated occupations
- 2.4 describe how to organise resources prior to and during transporting and discharging operations.

Learning outcome

The learner will:

- 3 know how to comply with relevant legislation and official guidance when carrying out transporting and discharging operations using forward tipping dumpers.

Assessment criteria

The learner can:

- 3.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with movement/storage of materials and by manual handling and mechanical lifting
- 3.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
- 3.3 explain what the accident reporting procedures are and who is responsible for making reports.

Learning outcome

The learner will:

- 4 maintain safe and healthy working practices when preparing for and carrying out transporting and discharging operations using forward tipping dumpers.

Assessment criteria

The learner can:

- 4.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during transporting and discharging operations
 - 4.2 demonstrate compliance with given information and relevant legislation when carrying out transporting and discharging operations using forward tipping dumpers in relation to two or more of the following:
 - a safe use and storage of plant or machinery
 - b safe use and storage of tools and equipment
 - c specific risks to health
 - 4.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to forward tipping dumper use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
 - 4.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
 - 4.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
-

Learning outcome

The learner will:

- 5 request and select the required quantity and quality of resources to prepare for and carry out transporting and discharging operations using forward tipping dumpers.

Assessment criteria

The learner can:

- 5.1 request and select resources associated with forward tipping dumpers in relation to consumables, materials, tools, ancillary equipment and/or accessories
- 5.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:
 - a consumables, lubricants and fuels
 - b attachments and load coverings
 - c hand tools, ancillary equipment and accessories
- 5.3 describe how the resources should be used correctly and how problems associated with the resources are reported
- 5.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources

- 5.5 describe any potential hazards associated with the resources and methods of work
 - 5.6 describe how to identify weight, quantity, pressure, length and area associated with the method/procedures to carry out transporting and discharging operations.
-

Learning outcome

The learner will:

- 6 minimise the risk of damage to the work and surrounding area when preparing to and transporting and discharging materials.

Assessment criteria

The learner can:

- 6.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
 - 6.2 prevent damage and maintain a clean work space
 - 6.3 dispose of waste in accordance with current legislation
 - 6.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
 - 6.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
-

Learning outcome

The learner will:

- 7 complete the work within the allocated time when preparing to and transporting and discharging materials using forward tipping dumpers.

Assessment criteria

The learner can:

- 7.1 demonstrate completion of the work within the allocated time
 - 7.2 describe the purpose of the work programme and describe why deadlines should be kept in relation to:
 - a types of progress charts, timetables and estimated times
 - b organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 8 comply with the given contract information to receive, transport and discharge materials using forward tipping dumpers to the required specification

Assessment criteria

The learner can:

- 8.1 demonstrate the following work skills when preparing for and transporting and discharging materials using forward tipping dumpers:
 - a checking
 - b adjusting
 - c communicating
 - d manoeuvring
 - e positioning
 - f receiving
 - g depositing
 - h transporting
 - i discharging
- 8.2 use and maintain hand tools, ancillary equipment and/or accessories
- 8.3 prepare to, position, set up and operate forward tipping dumpers to receive, transport and discharge loads to given working instructions
- 8.4 shut down and secure forward tipping dumpers
- 8.5 describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:
 - a identify the characteristics of the forward tipping dumpers used for transporting and discharging work
 - b carry out function checks to receive, transport and discharge loads
 - c identify characteristics, type and volume of loads to receive and transport
 - d prepare, set up and adjust for operational requirements
 - e carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area
 - f recognise and determine when specific skills and knowledge are required and report accordingly
 - g identify the area for discharging
 - h check to avoid damage to structures and utilities service apparatus
 - i receive, transport and discharge materials safely and securely
 - j be on the public highway
 - k shut down and secure the forward tipping dumper
 - l use hand tools, ancillary equipment and accessories
- 8.6 describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out transporting and discharging operations
- 8.7 describe how to maintain the plant and machinery, hand tools and ancillary equipment used for transporting and discharging operations.

Unit 317

Preparing and operating forward tipping dumpers to receive, transport and discharge materials in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the following endorsements:

- forward tipping dumper wheeled
- forward tipping dumper tracked.

Unit 332

Preparing and operating ride-on rollers to compact materials in the workplace

Unit level:	2
GLH:	63
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• organise and communicate effectively with others• adopt safe and healthy working practices• select resources and methods of work• prepare and operate ride-on rollers to compact material.

Learning outcome

The learner will:

- 1 interpret the given information relating to the preparation and use of ride-on rollers to carry out compacting operations.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments
 - f manufacturers' information
 - g current regulations governing the operation of ride-on rollers for compaction work.

Learning outcome

The learner will:

- 2 organise with others the sequence and operation in which compacting operations using ride-on rollers are to be carried out.

Assessment criteria

The learner can:

- 2.1 organise the work according to given information or instructions
- 2.2 describe how to communicate ideas between team members
- 2.3 organise and communicate with team members and other associated occupations
- 2.4 describe how to organise resources prior to and during compacting operations using ride-on rollers.

Learning outcome

The learner will:

- 3 know how to comply with relevant legislation and official guidance when carrying out compacting operations using ride-on rollers.

Assessment criteria

The learner can:

- 3.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with movement/storage of materials and by manual handling and mechanical lifting
- 3.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
- 3.3 explain what the accident reporting procedures are and who is responsible for making reports.

Learning outcome

The learner will:

- 4 maintain safe and healthy working practices when preparing for and carrying out compacting operations using ride-on rollers.

Assessment criteria

The learner can:

- 4.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during compacting operations
 - 4.2 demonstrate compliance with given information and relevant legislation when carrying out compacting operations using ride-on rollers in relation to two or more of the following:
 - a safe use and storage of plant or machinery
 - b safe use and storage of tools and equipment
 - c specific risks to health
 - 4.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to ride-on roller use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
 - 4.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
 - 4.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
-

Learning outcome

The learner will:

- 5 request and select the required quantity and quality of resources to prepare for and carry out compacting operations using ride-on rollers.

Assessment criteria

The learner can:

- 5.1 request and select resources associated with ride-on rollers in relation to consumables, materials, tools, ancillary equipment and/or accessories
- 5.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:
 - a consumables, lubricants and fuels
 - b attachments and compaction operational aids
 - c hand tools, ancillary equipment and accessories
- 5.3 describe how the resources should be used correctly and how problems associated with the resources are reported
- 5.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources

- 5.5 describe any potential hazards associated with the resources and methods of work
 - 5.6 describe how to identify weight, pressure, quantity, length and area associated with the method/procedures to carry out compaction work using ride-on rollers.
-

Learning outcome

The learner will:

- 6 minimise the risk of damage to the work and surrounding area when preparing for and compacting materials.

Assessment criteria

The learner can:

- 6.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
 - 6.2 prevent damage and maintain a clean work space
 - 6.3 dispose of waste in accordance with current legislation
 - 6.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
 - 6.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
-

Learning outcome

The learner will:

- 7 complete the work within the allocated time when preparing to and compacting materials.

Assessment criteria

The learner can:

- 7.1 demonstrate completion of the work within the allocated time
 - 7.2 describe the purpose of the work programme and describe why deadlines should be kept in relation to:
 - a types of progress charts, timetables and estimated times
 - b organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 8 comply with the given contract information to compact materials using ride-on rollers to the required specification.

Assessment criteria

The learner can:

- 8.1 demonstrate the following work skills when preparing for and compacting materials using ride-on rollers:
 - a checking
 - b adjusting
 - c communicating
 - d manoeuvring
 - e positioning
 - f compacting
- 8.2 use and maintain hand tools, ancillary equipment and/or accessories
- 8.3 prepare for, position, set up and operate ride-on rollers to compact a variety of materials, in various locations, to given working instructions
- 8.4 shut down and secure ride-on rollers
- 8.5 describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:
 - a identify the characteristics of the ride-on roller used for compaction operations
 - b carry out function checks for compaction operations
 - c identify the area for the compaction work
 - d prepare, set up and adjust for operational requirements
 - e carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area
 - f identify geological, environmental and material changes and report
 - g check to avoid damage to structures and utilities service apparatus
 - h recognise different compaction methods
 - i recognise and work compaction patterns
 - j recognise and determine when specific skills and knowledge are required and report accordingly
 - k compact materials safely and securely
 - l complete compaction work
 - m be on the public highway
 - n shut down and secure the ride-on roller
 - o use hand tools, ancillary equipment and accessories
- 8.6 describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out compacting operations
- 8.7 describe how to maintain the plant and machinery, hand tools and ancillary equipment used to compact materials.

Unit 332

Preparing and operating ride-on rollers to compact materials in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the following endorsement:

- ride-on roller.

Unit 367

Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace

Unit level:	2
GLH:	33
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select and prepare specialised powered tools and/or ancillary equipment• operate specialised powered tools and equipment.

Learning outcome

The learner will:

- 1 interpret the given information relating to the preparation and use of powered units, tools or pedestrian plant, machinery or equipment.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, specifications, schedules, risk assessments, operating instructions and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments
 - f legislation
 - g codes of practice
 - h manufacturers' information
 - i operating instructions.

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance to prepare and use powered units, tools or pedestrian plant, machinery or equipment.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with movement/storage of materials and by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports.

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when preparing for and using powered units, tools or pedestrian plant, machinery or equipment.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements when using powered units, tools or pedestrian plant, machinery or equipment
- 3.2 demonstrate compliance with given information and relevant legislation when using powered units, tools or pedestrian plant, machinery or equipment in relation to two or more of the following:
 - a safe use of access equipment
 - b safe handling of materials
 - c safe use and storage of materials, tools and equipment
 - d specific risks to health
- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to powered units, tools or pedestrian plant, machinery or equipment use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:

- a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
- 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources to prepare for and sustain powered units, tools or pedestrian plant, machinery or equipment.

Assessment criteria

The learner can:

- 4.1 select resources associated with the type of work in relation to fuel/power source, lubricants and consumables
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:
- a power source/fuels
 - b consumables
 - c lubricants
- 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.5 describe any potential hazards associated with the resources and methods of work
- 4.6 describe how to identify quantity, length, area and wastage associated with the method/procedures to operate powered units, tools or pedestrian plant, machinery or equipment.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when preparing to and using powered units, tools or pedestrian plant, machinery or equipment.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage. In accordance with safe working practices and organisational procedures

- 5.2 prevent damage and maintain a clean work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
 - 5.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when preparing to and using powered units, tools or pedestrian plant, machinery or equipment.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time
 - 6.2 describe the purpose of the work programme and describe why deadlines should be kept in relation to:
 - a types of progress charts, timetables and estimated times
 - b organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to operate powered units, tools or pedestrian plant, machinery or equipment to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when using powered units, tools or pedestrian plant, machinery or equipment:
 - a starting
 - b stopping
 - c replenishing
 - d controlling
 - e cleaning
- 7.2 use and maintain powered units, tools and ancillary equipment
- 7.3 operate and monitor powered units and tools or pedestrian plant, machinery or associated equipment to given working instructions relating to:
 - a continual running
 - b closing down
 - c cleaning

- 7.4 return powered unit, tools or pedestrian plant, machinery or equipment to a safe operational condition on completion of work
- 7.5 disassemble and/or clean powered unit, tools or pedestrian plant, machinery or equipment
- 7.6 describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:
 - a prepare, position and set up for work
 - b secure accessories and tool attachments
 - c carry out pre-use and function checks to manufacturers' and suppliers' information/ and procedures
 - d complete pre-start and post stop checks
 - e recognise the characteristics of the plant, machinery and equipment
 - f identify specific operating and safety requirements for the task and work
 - g recognise and determine when specific skills and knowledge are required and report accordingly
 - h operate, use and control
 - i monitor and maintain
 - j replenish consumables
 - k close down and secure
 - l disassemble and clean
 - m use access equipment
 - n transport and store
- 7.7 describe the needs of other occupations and how to effectively communicate within a team when preparing for and using powered units, tools or pedestrian plant, machinery or equipment
- 7.8 describe how to maintain the hand tools, portable power tools, powered units, pedestrian plant, machinery and ancillary equipment used for the work.

Unit 367

Preparing and operating powered units, tools or pedestrian plant, machinery or equipment in the workplace

Supporting Information

This unit must be assessed in a work environment and in accordance with the:

- Additional Requirements for Qualifications using the title NVQ in RQF
- ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against one of the following endorsements:

- generators
- pumps
- pedestrian operated plant or machinery
- mixers
- compressors
- self-powered tools.

Unit 369

Moving, handling and storing resources in the workplace

Unit level:	2
GLH:	27
Unit aim:	To provide the learner with the skills and knowledge required to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select aids or equipment to move, handle or store occupational resources• move, handle and store occupational resources to maintain useful condition.

Learning outcome

The learner will:

- 1 comply with given information when moving, handling and/or storing resources.

Assessment criteria

The learner can:

- 1.1 interpret the given information relating to moving, handling and/or storing resources, relevant to the given occupation
- 1.2 interpret the given information relating to the use and storage of lifting aids and equipment
- 1.3 describe the different types of technical, product and regulatory information, their source and how they are interpreted
- 1.4 state the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.5 describe how to obtain information relating to using and storing lifting aids and equipment.

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when moving, handling and/or storing resources.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities under current legislation and official guidance whilst working:
 - a in the workplace
 - b in confined spaces
 - c below ground level
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with movement/storage of materials and by manual handling and mechanical lifting
 - 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
 - 2.3 explain what the accident reporting procedures are and who is responsible for making the reports
 - 2.4 state the appropriate types of fire extinguishers relevant to the work
 - 2.5 describe how and when the different types of fire extinguishers, relevant to the given occupation, are used in accordance with legislation and official guidance.
-

Learning outcome

The learner will:

- 3 maintain safe working practices when moving, handling and/or storing resources.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely to carry out the activity in accordance with legislation and organisational requirements when moving, handling and/or storing resources
- 3.2 use lifting aids safely as appropriate to the work
- 3.3 protect the environment in accordance with safe working practices as appropriate to the work
- 3.4 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to moving, handling and/or storing resources, and the types, purpose and limitations of each type, the work situation, occupational use and the general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
- 3.5 describe how the health and safety control equipment relevant to the work should be used in accordance with the given instructions

- 3.6 state how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to move, handle and/or store occupational resources.

Assessment criteria

The learner can:

- 4.1 select the relevant resources to be moved, handled and/or stored, associated with own work
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the occupational resources in relation to:
- a lifting and handling aids
 - b container(s)
 - c fixing, holding and securing systems
- 4.3 describe how the resources should be handled and how any problems associated with the resources are reported
- 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.5 describe any potential hazards associated with the resources and methods of work.
-

Learning outcome

The learner will:

- 5 prevent the risk of damage to occupational resources and surrounding environment when moving, handling and/or storing resources.

Assessment criteria

The learner can:

- 5.1 protect occupational resources and their surrounding area from damage in accordance with safe working practices and organisational procedures
- 5.2 dispose of waste and packaging in accordance with legislation
- 5.3 maintain a clean work space when moving, handling or storing resources
- 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
- 5.5 explain why the disposal of waste should be carried safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.

Learning outcome

The learner will:

- 6 complete the work within the allocated time when moving, handling and/or storing resources.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time
- 6.2 state the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a progress charts, timetables and estimated times
 - b organisational procedures for reporting circumstances which will affect the work programme.

Learning outcome

The learner will:

- 7 comply with the given occupational resource information to move, handle and/or store resources to the required guidance.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when moving, handling and/or storing occupational resources:
 - a moving
 - b positioning
 - c storing
 - d securing and/or using lifting aids
 - e kinetic lifting techniques
- 7.2 move, handle and/or store occupational resources to meet product information and organisational requirements relating to **three** of the following:
 - a sheet material
 - b loose material
 - c bagged or wrapped material
 - d fragile material
 - e tools and equipment
 - f components
 - g liquids
- 7.3 describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them when moving, handling and/or storing occupational resources
- 7.4 describe the needs of other occupations when moving, handling and/or storing resources.

Unit 369

Moving, handling and storing resources in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

Unit 371

Setting out secondary dimensional work control in the workplace

Unit level:	2
GLH:	33
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select setting out equipment and ancillary resources• prepare and set out secondary dimensional control of the work.

Learning outcome

The learner will:

- 1 interpret the given information relating to setting out dimensional control of the work.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments
 - f manufacturers' information
 - g reference points
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments
 - f manufacturers' information
 - g reference points
 - h current regulations governing buildings and construction work.

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance to set out dimensional control of the work.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with movement/storage of materials and by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports.

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when setting out dimensional control of the work.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during setting out dimensional control of the work
- 3.2 demonstrate compliance with given information and relevant legislation when setting out dimensional control of the work in relation to two or more of the following:
 - a safe use of access equipment/working platforms
 - b safe handling of materials
 - c safe use and storage of materials, tools and equipment
 - d specific risks to health
- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to setting out dimensional control of the work, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)

- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
 - 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources to set out dimensional control of the work.

Assessment criteria

The learner can:

- 4.1 select resources associated with the work in relation to measuring tools and instruments, marking materials/components, tools and equipment
 - 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:
 - a measuring tools and instruments
 - b marking equipment
 - c level and alignment tools
 - 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.5 describe any potential hazards associated with the resources and methods of work
 - 4.6 describe how to identify quantity of resources associated with the method/procedure to set out for secondary dimensional work control.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when setting out dimensional control of the work.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
- 5.2 prevent damage and maintain a clean work area
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
- 5.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.

Learning outcome

The learner will:

- 6 complete the work within the allocated time when setting out dimensional control of the work.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time
- 6.2 describe the purpose of the work programme and describe why deadlines should be kept in relation to:
 - a types of progress charts, timetables and estimated times
 - b organisational procedures for reporting circumstances which will affect the work programme.

Learning outcome

The learner will:

- 7 comply with the given contract information to set out dimensional control of the work to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when setting out dimensional control of the work:
 - a transferring
 - b transposing
 - c levelling
 - d measuring
 - e marking
 - f positioning
 - g fixing
 - h securing
- 7.2 use and maintain hand tools, measuring and marking equipment
- 7.3 set out secondary dimensional control for the work to given working instructions for three or more of the following:
 - a line
 - b level
 - c depth
 - d area
 - e height
 - f angle
- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:
 - a measure and set out secondary dimensional control for the work
 - b measure, align and level to dimensional control requirements
 - c transfer and set out lines, angles and levels to dimensional control requirements

- d recognise and determine when specific skills and knowledge are required and report accordingly
 - e use hand tools, measuring and marking equipment
 - f work at height
 - g use access equipment
- 7.5 describe how to calculate height, depth, angle, length and area associated with the method/procedure to set out secondary dimensional work control
- 7.6 describe the needs of other occupations and how to effectively communicate within a team when setting out dimensional control of the work
- 7.7 describe how to maintain the hand tools, measuring, marking and ancillary and equipment used to set out dimensional control of the work.

Unit 371

Setting out secondary dimensional work control in the workplace

Supporting Information

This unit must be assessed in a work environment and in accordance with the:

- Additional Requirements for Qualifications using the title NVQ in RQF
- ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment Craft, Supervisory, Technical, Managerial and Professional Units and Qualifications with NVQ in the Regulated Qualification Framework (RQF) title and SVQs.

Assessors for this unit must use a combination of the following assessment methods:

- observation of normal work activities within the workplace that clearly confirms the required skills
- questioning the learner on knowledge criteria that clearly confirms the required understanding
- review other forms of evidence that can clearly confirm industry required skills, knowledge and understanding.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of setting out secondary dimensional work control to be effective and reliable when confirming a learner's competence.

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the following endorsements:

- lines
- levels
- depths
- areas
- heights
- angles.

Unit 613

Placing and finishing concrete in the workplace

Unit level:	2
GLH:	130
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• place and finish non-specialist concrete in the workplace.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when placing and finishing concrete.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, plans, specifications, schedules, risk assessments, method statements, manufacturers' information and suppliers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b plans
 - c specifications
 - d schedules
 - e method statements
 - f risk assessments
 - g manufacturers' information
 - h verbal and written instructions
 - i sketches
 - j electronic data
 - k official guidance
 - l current regulations

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when placing and finishing concrete.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with the movement and storage of materials by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company, operative and vehicles.
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports
- 2.4 describe the types of fire extinguishers available and describe how and when they are used:
 - a water
 - b CO₂
 - c foam
 - d powder

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when placing and finishing concrete.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements
- 3.2 demonstrate compliance with given information and relevant legislation in relation to two of the following:
 - a safe use of access equipment
 - b safe use, storage and handling of materials, tools and equipment
 - c specific risks to health

- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
 - 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given instructions
 - 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with:
 - a fires, spillages, injuries
 - b other task-related hazards
 - c materials, components and fixings
 - d tools and equipment
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to place and finish concrete.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a materials, components and fixings
 - b tools and equipment
 - 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a concrete
 - b reinforcement
 - c timber
 - d plywood
 - e proprietary slab edgings and fixings
 - f hand and power tools
 - 4.3 describe how to confirm that resources and materials conform to the specification
 - 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.6 describe any potential hazards associated with the resources and methods of work
 - 4.7 describe how to calculate quantity, length, area and wastage associated with the method and procedure to place and finish concrete.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when placing and finishing concrete.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
 - 5.2 maintain a clear and tidy work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - a general workplace activities
 - b other occupations
 - c adverse weather conditions
 - 5.6 explain why the disposal of waste should be carried out safely in accordance with:
 - a environmental responsibilities
 - b organisational procedures
 - c manufacturers' information
 - d statutory regulations
 - e official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when placing and finishing concrete.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the estimated allocated time
 - 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of productivity targets and timescales
 - b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to place and finish concrete to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills:
 - a measuring
 - b marking out
 - c placing
 - d compacting
 - e finishing
 - f positioning

- g securing
- 7.2 use and maintain hand and power tools
- 7.3 place, compact and finish concrete to given working instructions for the following:
 - a concrete slabs and bases (footing, oversites or paths)
 - b form slab edging (trowelled)
 - c position reinforcement
 - d form surface finish (tamped, floated, brushed and trowelled)
- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a handle, transport and test concrete
 - b transport, place, compact, and finish concrete
 - c cure and protect
 - d place reinforcement
 - e identify concrete mix ratios
 - f place concrete into formwork and shuttering
 - g form slab edging including joints and level changes
 - h recognise and determine when specialist skills and knowledge are required and report accordingly
 - i identify and follow the installation quality requirements
 - j work with, around and in close proximity to plant and machinery
 - k direct and guide the operations and movement of plant and machinery
 - l use hand and power tools
 - m work at height
 - n use access equipment
- 7.5 describe the needs of other occupations and how to communicate effectively within a team
- 7.6 describe how to maintain the tools and equipment used.

Unit 613

Placing and finishing concrete in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

Unit 712

Installing drainage in the workplace

Unit level:	2
GLH:	116
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• install drainage.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when installing drainage.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b specifications
 - c schedules
 - d risk assessments
 - e method statements
 - f manufacturers' information
 - g suppliers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d risk assessments
 - e method statements
 - f manufacturers' information

- g verbal and written instructions
 - h sketches
 - i electronic data
 - j permits
 - k current regulations
 - l official guidance
-

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when installing drainage.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with the movement and storage of materials by manual handling and mechanical lifting
 - 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company, operative and vehicles
 - 2.3 explain what the accident reporting procedures are and who is responsible for making reports
 - 2.4 describe the types of fire extinguishers available and describe how and when they are used:
 - a water
 - b CO₂
 - c foam
 - d powder
-

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when installing drainage.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements
 - 3.2 demonstrate compliance with given information and relevant legislation in relation to at least **three** of the following:
 - a safe use of access equipment
 - b working with and around utility services including ground penetration
 - c safe use, storage and handling of materials, tools and equipment
 - d specific risks to health
 - 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
 - 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given instructions
 - 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to install drainage.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components and fixings, and tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a pipes, fittings and ancillary components
 - b pre-cast (metal, concrete, clay or plastic) components
 - c bricks, blocks and sandbags
 - d granular materials, aggregates, cement, concrete, mortars and sand
 - e sealant materials (adhesives, compounds, solvents)
 - f hand and power tools
- 4.3 describe how to confirm that the resources and materials conform to the specification

- 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.6 describe any potential hazards associated with the resources and methods of work
 - 4.7 describe how to calculate quantity, length, volume, area and wastage associated with the method and procedure to install drainage.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when installing drainage.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
 - 5.2 maintain a clear and tidy work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
 - 5.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the estimated allocated time when installing drainage.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the estimated allocated time
- 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of progress charts, timetables, productivity targets and time scales
 - b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.

Learning outcome

The learner will:

- 7 comply with the given contract information to install drainage to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills:
 - a checking
 - b measuring
 - c marking out
 - d cutting
 - e laying
 - f positioning
 - g fitting
 - h joining
 - i levelling
 - j plumbing
 - k aligning
 - l securing
 - m testing
- 7.2 use and maintain hand and power tools
- 7.3 lay bedding materials, install and test pipework and drainage structures for new or replacement, foul or surface water drainage for at least **one** of the following to given working instructions:
 - a inspection chambers
 - b surface water systems
 - c foul water systems
 - d surround pipe with specified materials
 - e place backfill to trench using given work instructions for both compacted and free drainage material
- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a excavate trenches and provide trench support
 - b confirm ground conditions, site and excavations are suitable for the drainage installation work
 - c recognise the dangers of loads and structures at the edge of excavations
 - d deal with groundwater
 - e work around other utility services
 - f install geotextile materials
 - g prepare different granular and cementitious bedding
 - h determine levels and gradients

- i identify the differences between surface and foul water drainage
 - j measure, mark and cut drainage materials
 - k lay, position, level, plumb, align, fit, join, fix and secure new and replacement drainage systems
 - l construct structures of a drainage system (storm alleviation, culverts, inspection chambers, lateral drains, overflows, sumps, filter drains, soak-a-ways, cess pools, reed beds or treatment plants)
 - m install pre-cast components (metal, concrete, clay and plastic) of a drainage system structure (inspection chambers, septic tanks and street iron work)
 - n connect and seal new systems to existing systems
 - o prepare for conducting tests on drainage systems
 - p work with, around and in close proximity to with plant and machinery including lifting plant
 - q store and dispose of removed drainage components
 - r follow specified hygiene procedures particularly when dealing with foul water draining systems
 - s recognise and determine when specialist skills and knowledge are required and report accordingly
 - t determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
 - u use hand and power tools
 - v work at height and below ground level
 - w use access equipment
- 7.5 describe the needs of other occupations and how to communicate effectively within a team
- 7.6 describe how to maintain the tools and equipment used.

Unit 712 **Installing drainage in the workplace**

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the following endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualifications/occupational area in which the candidate is being assessed.

Unit 734

Reinstating ground condition in the workplace

Unit level:	2
GLH:	53
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• reinstate ground condition.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when reinstating ground condition.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, specifications, schedules method statements, risk assessments and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments
 - f manufacturers' information
 - g current regulations governing buildings and official guidance associated with the reinstatement of ground conditions.

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when reinstating ground condition.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with movement and storage of materials and by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports.

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when reinstating ground condition.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when reinstating ground condition
- 3.2 demonstrate compliance with given information and relevant legislation when reinstating ground condition in relation to at two of the following:
 - a safe use of access equipment
 - b safe use, storage and handling of materials, tools and equipment
 - c specific risks to health
- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention should be used, relating to reinstating ground condition, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)

- c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
- 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to reinstate ground condition.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components, fixings, tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
- a flags, blocks, edging, aggregates, cement, black top, top soil, seeds
 - b backfill materials
 - c hand tools, portable power tools plant, machinery and equipment
- 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.5 describe any potential hazards associated with the resources and methods of work
- 4.6 describe the methods of calculating quantity, length, area and wastage associated with the method and procedure to reinstate ground condition.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when reinstating ground condition.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
- 5.2 maintain a clean work space
- 5.3 dispose of waste in accordance with current legislation

- 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
 - 5.5 explain why the disposal of waste should be carried safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when reinstating ground condition.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time.
 - 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of progress charts, timetables and estimated times
 - b organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to reinstate ground condition to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when reinstating ground condition:
 - a measuring
 - b marking out
 - c laying
 - d bedding
 - e positioning
 - f securing
 - g finishing
- 7.2 use and maintain hand tools, portable power tools and ancillary equipment
- 7.3 reinstate ground conditions to given working instructions for three of the following:
 - a backfill with suitable excavated materials
 - b backfill with new materials
 - c compact
 - d hard top surfaces (flags, blocks, concrete, blacktop)
 - e re-plant cultivated and grassed areas or re-lay turf

- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
- a identify installation quality requirements
 - b conform to agreed specification
 - c backfill with suitable excavated materials
 - d backfill with new materials
 - e recognise the requirement to compact in layers
 - f place and compact sub-grade and sub-base
 - g form levels
 - h replace hard top surfaces (flags, blocks, concrete, blacktop, cultivated grassed areas)
 - i replant cultivated and grassed areas and relay turf
 - j work with, around and in close proximity to plant and machinery
 - k direct and guide the operations and movement of plant and machinery
 - l recognise and determine when additional specialist skills and knowledge are required and report accordingly
 - m determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
 - n use hand tools, portable power tools and equipment
 - o work at height
 - p use access equipment
- 7.5 describe the needs of other occupations and how to effectively communicate within a team when reinstating ground condition
- 7.6 describe how to maintain the tools and equipment used when reinstating ground condition.

Unit 734

Reinstating ground condition in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

Unit 736

Erecting and striking proprietary formwork in the workplace

Unit level:	2
GLH:	100
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• erect and strike proprietary formwork.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when erecting and striking proprietary formwork.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, specifications, schedules, risk assessments, method statements, manufacturers' information and suppliers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d risk assessments
 - e method statements
 - f permits
 - g manufacturers' and suppliers' information
 - h verbal and written instructions
 - i sketches
 - j electronic data
 - k current regulations
 - l official guidance.

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when erecting and striking proprietary formwork.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment, whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with the movement and storage of materials by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company, operative and vehicles
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports
- 2.4 describe the types of fire extinguishers available and describe how and when they are used:
 - a water
 - b CO₂
 - c foam
 - d powder

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when erecting and striking proprietary formwork.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements
- 3.2 demonstrate compliance with given information and relevant legislation in relation to at least two of the following:
 - a safe use of access equipment
 - b safe use, storage and handling of materials, tools and equipment
 - c specific risks to health

- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention should be used and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
 - 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
 - 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to erect and strike proprietary formwork.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components, fixings, tools and equipment
 - 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a proprietary formwork and associated items
 - b tie systems
 - c prop systems
 - d protective coatings
 - e fixtures and fittings
 - f access equipment
 - g hand and power tools
 - 4.3 describe how to confirm that the resources and materials conform to the specification
 - 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.6 describe any potential hazards associated with the resources and methods of work
 - 4.7 describe how to calculate quantity, length, area and wastage associated with the method and procedure to erect and strike proprietary formwork.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when erecting and striking proprietary formwork.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
 - 5.2 maintain a clear and tidy work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
 - 5.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the estimated allocated time when erecting and striking proprietary formwork.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the estimated allocated time
 - 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of productivity targets and timescales
 - b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to erect and strike proprietary formwork to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills:
 - a measuring
 - b marking out
 - c aligning
 - d positioning
 - e levelling
 - f plumbing
 - g securing
 - h removing
 - i storing
- 7.2 use and maintain hand and power tools

- 7.3 erect and strike proprietary formwork to given working instructions
- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a set out, erect and strike proprietary formwork for channels, ground slabs and bases
 - b conform to agreed specifications
 - c attach and remove safe lifting provision
 - d position, secure and remove prop and tie systems
 - e monitor and check accuracy during progress and on completion of work
 - f apply release agents
 - g move, clean, stack and store proprietary forms
 - h recognise and determine when specialist skills and knowledge are required and report accordingly
 - i work with, around and in close proximity to plant and machinery including lifting equipment
 - j use hand and power tools
 - k work at height
 - l use access equipment
- 7.5 describe the needs of other occupations and how to communicate effectively within a team
- 7.6 describe how to maintain the tools and equipment used.

Unit 736

Erecting and striking proprietary formwork in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

Unit 737

Laying preformed kerbs and channels in the workplace

Unit level:	2
GLH:	85
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select materials, components and equipment• prepare for and lay kerbs and channels.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when laying preformed kerbs and channels.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from: drawings, specifications, schedules, risk assessments, method statements and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d risk assessments
 - e method statements
 - f manufacturers' information
 - g verbal
 - h written and graphical instructions and
 - i current regulations for laying preformed kerbs and channels.

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when laying preformed kerbs and channels.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d with tools and equipment
 - e with materials and substances
 - f with movement and storage of materials by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports.

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when laying preformed kerbs and channels.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when laying preformed kerbs and channels
- 3.2 demonstrate compliance with given information and relevant legislation when laying preformed kerbs and channels in relation to the following:
 - a safe use, storage and handling of materials, tools and equipment
 - b specific risks to health
 - c others affected by the work
- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used, relating to laying preformed kerbs and channels, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
- 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to lay preformed kerbs and channels.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components, fixings, tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a sand, cement, aggregates, additives, sealants and resins
 - b kerbs, channels and combined drainage and kerb systems
 - c hand tools, power tools and ancillary equipment
- 4.3 describe how to confirm that the resources and materials conform to the specification
- 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.6 describe any potential hazards associated with the resources and methods of work
- 4.7 describe how to identify by calculation, quantity, length, area and wastage associated with the method and procedure to lay preformed kerbs, channels and combined drainage and kerb systems.

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when laying preformed kerbs and channels.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
- 5.2 maintain a clear and tidy work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
- 5.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.

Learning outcome

The learner will:

- 6 complete the work within the allocated time when laying preformed kerbs and channels.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time
 - 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of productivity targets and time scales
 - b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to lay preformed kerbs and channels to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when laying preformed kerbs and channels:
 - a measuring
 - b marking out
 - c cutting
 - d positioning
 - e levelling
 - f aligning
 - g compacting
 - h sealing
 - i finishing
- 7.2 use and maintain hand tools, power tools and ancillary equipment
- 7.3 lay preformed kerbs and/or channels and/or combined drainage and kerb systems to given working instructions
- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a confirm the area and location of work, the operations, safety and security requirements including temporary traffic management and immediate area protection
 - b identify different types of kerbs, channels and combined drainage and kerb systems
 - c conform to agreed specifications
 - d set out the area and prepare substrate and foundation for laying kerbs, channels and combined drainage and kerb systems
 - e lay and align kerbs, channels and combined drainage and kerb systems to the required specifications
 - f mark and cut kerbs, channels and combined drainage and kerb systems
 - g work around street furniture and ironwork
 - h protect completed work for curing process
 - i deal with others affected by the work
 - j return infrastructure to operational status
 - k recognise and determine when specialist skills and knowledge are required and report accordingly

- I use hand tools, power tools and equipment
- 7.5 describe the needs of other occupations and how to effectively communicate within a team when laying preformed kerbs, channels and combined drainage and kerb systems
- 7.6 describe how to maintain the tools and equipment used when laying preformed kerbs, channels and combined drainage and kerb systems.

Unit 737

Laying preformed kerbs and channels in the workplace

Supporting Information

This unit must be assessed in a work environment, in accordance with the:

- Additional Requirements for Qualifications using the title NVQ in RQF
- ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.

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

Workplace evidence of skills cannot be simulated.

Unit 738

Installing, maintaining and removing work area protection and safety equipment in the workplace

Unit level:	2
GLH:	65
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select materials, components and equipment• prepare for and install, maintain and remove work area protection and safety equipment.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when installing, maintaining and removing work area protection and safety equipment.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b plans
 - c specifications
 - d schedules
 - e risk assessments
 - f method statements
 - g manufacturers' information
 - h suppliers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b plans

- c specifications
 - d schedules
 - e risk assessments
 - f method statements
 - g site inspection reports
 - h manufacturers' information
 - i verbal and written instructions
 - j sketches
 - k electronic data
 - l current regulations and official guidance.
-

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when installing, maintaining and removing work area protection and safety equipment.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment, whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with the movement and storage of materials by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to:
 - a site
 - b workplace
 - c company
 - d operative
 - e vehicles
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports.
- 2.4 describe the types of fire extinguishers available and describe how and when they are used for:
 - a water
 - b CO₂
 - c foam
 - d powder

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when installing, maintaining and removing work area protection and safety equipment.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements
- 3.2 demonstrate compliance with given information and relevant legislation in relation to at least two of the following:
 - a safe use of access equipment
 - b safe use, storage and handling of materials, tools and equipment
 - c specific risks to health
- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
- 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to install, maintain and remove work area protection and safety equipment.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components and fixings, and tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a safety and security equipment (cones, tapes, fences, barriers, hoarding, doors, gates)
 - b protection and safety notices

- c signs and safety lighting
 - d hand and power tools
- 4.3 describe how to confirm that the resources and materials conform to the specification
- 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.6 describe any potential hazards associated with the resources and methods of work
- 4.7 describe how to calculate quantity, length and area associated with the method and procedure to install, maintain and remove work area protection and safety equipment.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when installing, maintaining and removing work area protection and safety equipment.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
- 5.2 maintain a clear and tidy work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
- a general workplace activities
 - b other occupations
 - c adverse weather conditions
- 5.5 explain why the disposal of waste should be carried out safely in accordance with:
- a environmental responsibilities
 - b organisational procedures
 - c manufacturers' information
 - d statutory regulations
 - e official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when installing, maintaining and removing work area protection and safety equipment.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the estimated allocated time

- 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
- a types of productivity targets and time scales
 - b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to install, maintain and remove work area protection and safety equipment to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills:
- a measuring
 - b setting out
 - c positioning
 - d assembling
 - e constructing
 - f securing
 - g dismantling
 - h removing
- 7.2 use and maintain hand and power tools
- 7.3 install, maintain and remove temporary protection and safety arrangements for the work area, to given working instructions, relating to protection equipment, barriers, fences and at least **one** of the following:
- a protection and safety notices
 - b safety lighting.
- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
- a plan for the protection and the safety of the work and surrounding environment
 - b conform to agreed specification
 - c confirm the location of utility services and ensure they are protected
 - d prepare and set out area protection equipment to required dimensions
 - e install, check and maintain the protection and safety equipment – barriers and fences
 - f dismantle and remove protection and safety equipment
 - g install protection and safety notices
 - h install safety lighting systems
 - i monitor and check accuracy during progress and on completion of work
 - j install, maintain and remove work area protection equipment in public areas

- k transport, load and off load work area protection equipment
 - l recognise and determine when specialist skills and knowledge are required and report accordingly
 - m report work undertaken
 - n use hand and power tools
 - o work at height
 - p use access equipment
- 7.5 describe the needs of other occupations and how to communicate effectively within a team
- 7.6 describe how to maintain the tools and equipment used.

Unit 738

Installing, maintaining and removing work area protection and safety equipment in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Unit 739

Forming and finishing excavations manually in the workplace

Unit level:	3
GLH:	71
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• form and finish excavations.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when forming and finishing excavations manually.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b specifications
 - c schedules
 - d risk assessments
 - e method statements
 - f manufacturers' information
 - g suppliers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d risk assessments
 - e method statements
 - f manufacturers' information
 - g verbal and written instructions
 - h sketches

- i electronic data
 - j permits
 - k current legislation
 - l official guidance
-

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when forming and finishing excavations manually.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with the movement and storage of materials by manual handling and mechanical lifting
 - 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to:
 - a site
 - b workplace
 - c company
 - d operative
 - e vehicles
 - 2.3 explain what the accident reporting procedures are and who is responsible for making reports.
 - 2.4 describe the types of fire extinguishers available and how and when they are used:
 - a water
 - b CO₂
 - c foam
 - d powder
-

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when forming and finishing excavations manually.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements
 - 3.2 demonstrate compliance with given information and relevant legislation in relation to at least three of the following:
 - a safe use of access equipment
 - b working with and around utility services including ground penetration
 - c safe use, storage and handling of materials, tools and equipment
 - d specific risks to health
 - 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
 - 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
 - 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to form and finish excavations manually.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials and components, and tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability limitations and defects associated with the resources in relation to:
 - a digging equipment
 - b hand and power tools
- 4.3 describe how to confirm that the resources and materials conform to the specification
- 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.6 describe any potential hazards associated with the resources and methods of work
- 4.7 describe how to calculate quantity, length, area, volume and wastage associated with the method and procedure to form and finish excavations manually.

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when forming and finishing excavations manually.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
- 5.2 maintain a clear and tidy work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
- 5.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.

Learning outcome

The learner will:

- 6 complete the work within the allocated time when forming and finishing excavations manually.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the estimated allocated time
- 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of productivity targets and timescales
 - b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.

Learning outcome

The learner will:

- 7 comply with the given contract information to form and finish excavations manually to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills:
 - a checking
 - b locating
 - c measuring
 - d marking out

- e excavating
- f securing
- 7.2 use and maintain hand and power tools
- 7.3 form and finish excavations manually to given working instructions
- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a locate, position, identify and confirm the type of surface and sub-surface composition including ground water
 - b conform to agreed specifications
 - c plan, prepare, set out and mark out excavations
 - d remove surface courses, street furniture and sub-surface structures
 - e protect and monitor adjacent structures
 - f excavate, form and finish ground manually
 - g recognise changes in ground conditions, ground water conditions, soil types and excavation stability
 - h recognise the dangers of loads and structures at the edge of excavations
 - i identify and locate utility services, excavate around services and protect
 - j monitor and check accuracy during progress and on completion of work
 - k recognise inspection and test criteria for excavations
 - l identify and store excavated and reusable materials
 - m confirm the disposal of unusable materials
 - n recognise the need for positioning, securing and removing excavation supports
 - o provide for access and egress
 - p work with, around and in close proximity to plant and machinery
 - q recognise and determine when specialist skills and knowledge are required and report accordingly
 - r use hand tools, power tools and equipment
 - s use access equipment
 - t work at height
- 7.5 describe the needs of other occupations and how to communicate effectively within a team
- 7.6 describe how to maintain the tools and equipment used

Unit 739

Forming and finishing excavations manually in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

Unit 740

Identifying and marking the location of utilities apparatus and sub-structures in the workplace

Unit level:	2
GLH:	75
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• identify and mark the location of utilities apparatus and sub-structures.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when identifying and marking the location of utilities apparatus and sub-structures.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, specifications, schedules, risk assessments, method statements, survey and utility company information and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d risk assessments
 - e method statements
 - f organisational and manufacturers' information
 - g verbal, written and graphical instructions
 - h current regulations and official guidance governing utilities.

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when identifying and marking the location of utilities apparatus and sub-structures.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with movement and storage of materials by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports
- 2.4 describe the types of fire extinguishers available when identifying and marking the location of utilities apparatus and sub-structures and describe how and when they are used.

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when identifying and marking the location of utilities apparatus and sub-structures.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when identifying and marking the location of utilities apparatus and sub-structures
- 3.2 demonstrate compliance with given information and relevant legislation when identifying and marking the location of utilities apparatus and sub-structures in relation to the following:
 - a safe use, storage and handling of materials, tools and equipment
 - b specific risks to health
 - c others affected by the work

- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used, relating to identifying and marking the location of utilities apparatus and sub-structures, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
 - 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries, damage to utilities apparatus and sub-structures and other task-related activities.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to identify and mark the location of utilities apparatus and sub-structures.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components, tools, equipment and electronic location instruments
 - 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a electronic location instruments
 - b marking materials and equipment
 - c hand tools, power tools and equipment
 - d ancillary equipment
 - 4.3 describe how to confirm that the resources and materials conform to the specification
 - 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.6 describe any potential hazards associated with the resources and methods of work
 - 4.7 describe how to identify by calculation, quantity, length and area associated with the method and procedure to identify and mark the location of utilities apparatus and sub-structures
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when identifying and marking the location of utilities apparatus and sub-structures.
-

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
 - 5.2 maintain a clear and tidy work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
 - 5.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when identifying and marking the location of utilities apparatus and sub-structures.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time
 - 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of productivity targets and time scales
 - b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to Identify and mark the location of utilities apparatus and sub-structures to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when identifying and marking the location of utilities apparatus and sub-structures:
 - a measuring
 - b locating
 - c identifying
 - d marking out
 - e positioning
-

- f protecting
- g securing
- 7.2 use and maintain hand tools, power tools and ancillary equipment
- 7.3 survey, identify and mark the location of utilities apparatus and sub-structures to given working instructions
- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a confirm the area and location of work, the operations, safety and security requirements including temporary traffic management and immediate area protection
 - b ensure electronic equipment is calibrated
 - c conform to agreed specification and local utility providers requirements
 - d identify utilities apparatus and sub-structures by electronic locators and visually
 - e confirm the type of service including gas, fuel, electric, communication, water, sewage
 - f work around street furniture and ironwork
 - g recognise identification markers for utility types
 - h confirm structures (foundations, inspection chambers, joint and junction boxes)
 - i confirm the impact of the natural environment (tree roots, watercourses)
 - j mark the position of the utilities apparatus and sub-structures
 - k return infrastructure to operational status
 - l recognise and determine when specialist skills and knowledge are required and report accordingly
 - m use hand tools, power tools and equipment
 - n work at height
- 7.5 describe the needs of other occupations and how to effectively communicate within a team when identifying and marking the location of utilities apparatus and sub-structures
- 7.6 describe how to maintain the tools, equipment and electronic instruments used when identifying and marking the location of utilities apparatus and sub-structures.

Unit 740

Identifying and marking the location of utilities apparatus and sub-structures in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the following endorsement:

- construction and civil engineering operations.

Unit 741

Controlling, directing and guiding the operation of plant or machinery in the workplace

Unit level:	2
GLH:	70
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• control, direct and guide the operation of plant and machinery.

Learning outcome

The learner will:

- 1 interpret the given information relating to controlling, directing and guiding the operation of plant or machinery.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from specifications, schedules, risk assessments and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments
 - f work instructions
 - g manufacturers' information
 - h official guidance for controlling, directing and guiding the operations of plant and machinery.

Learning outcome

The learner will:

- 2 organise with others the sequence and operation in which directing and guiding operations are to be carried out.

Assessment criteria

The learner can:

- 2.1 organise the work according to given information or instructions
- 2.2 describe how to communicate ideas between team members
- 2.3 organise and communicate with team members and other associated occupations.
- 2.4 describe how to organise resources prior to and during directing and guiding the operation of plant and machinery.

Learning outcome

The learner will:

- 3 know how to comply with relevant legislation and official guidance when carrying out controlling, directing and guiding operations of plant or machinery.

Assessment criteria

The learner can:

- 3.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with movement/storage of materials and by manual handling and mechanical lifting
- 3.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
- 3.3 explain what the accident reporting procedures are and who is responsible for making reports.

Learning outcome

The learner will:

- 4 maintain safe and healthy working practices when controlling, directing and guiding the operation of plant and machinery.

Assessment criteria

The learner can:

- 4.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during controlling, directing and guiding the operation of plant and machinery
 - 4.2 demonstrate compliance with given information and relevant legislation when controlling, directing and guiding the operation of plant and machinery in relation to two or more of the following:
 - a safe use and storage of tools
 - b safe use and storage of equipment
 - c specific risks to health
 - 4.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to directing and guiding operations of plant and machinery, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
 - 4.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
 - 4.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
-

Learning outcome

The learner will:

- 5 select the required quantity and quality of resources to direct and guide the operation of plant and machinery.

Assessment criteria

The learner can:

- 5.1 select resources associated with directing and guiding the operation of plant and machinery in relation to hand tools, ancillary equipment, and signalling and communication equipment
 - 5.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:
 - a signalling and communication equipment
 - b hand tools and ancillary equipment
 - c electronic guidance equipment, global positioning systems and laser marking devices
 - d measuring equipment (pegs, tapes, strings, lines and levels)
-

- 5.3 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 5.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 5.5 describe any potential hazards associated with the resources and methods of work
 - 5.6 describe how to identify weight and bearing pressures quantity, length, area and volume associated with the method/procedure for controlling, directing and guiding the operation of plant and machinery.
-

Learning outcome

The learner will:

- 6 minimise the risk of damage to the work and surrounding area when controlling, directing and guiding the operation of plant and machinery.

Assessment criteria

The learner can:

- 6.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
 - 6.2 prevent damage and maintain a clean work space
 - 6.3 dispose of waste in accordance with current legislation
 - 6.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
 - 6.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
-

Learning outcome

The learner will:

- 7 complete the work within the allocated time when controlling, directing and guiding the operation of plant and machinery.

Assessment criteria

The learner can:

- 7.1 demonstrate completion of the work within the allocated time
 - 7.2 describe the purpose of the work programme and describe why deadlines should be kept in relation to:
 - a types of progress charts, timetables and estimated times
 - b organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 8 comply with the given contract information to control, direct and guide the operation of plant or machinery to the required specification.

Assessment criteria

The learner can:

- 8.1 demonstrate the following work skills when controlling, directing and guiding the operation of plant or machinery:
 - a measuring
 - b gauging
 - c estimating
 - d interpreting
 - e judging
 - f explaining
 - g preparing
 - h commanding
 - i directing
 - j guiding
 - k indicating
 - l informing
 - m instructing
 - n signing
 - o positioning
 - p moving
 - q securing
 - r signalling
 - s relaying
- 8.2 use and maintain hand tools, ancillary equipment, and signalling and communication equipment
- 8.3 control, direct and guide the operation of plant or machinery not being used for lifting operations, but including plant or machinery used as work platforms, to given working instructions, relating to the following:
 - a hand signals
 - b hand signalling equipment
 - c verbal and electronic communication equipment
- 8.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:
 - a identify the differences between directing and guiding operations, directing and guiding movement and slinging and signalling
 - b interpret work plans
 - c assess and determine the operation of plant and machinery (not being used for lifting operation but including plant or machinery used as work platforms) to include

- own position, visibility, ground conditions and features, proximity hazards and weight limits
- d identify the operational characteristics and limitations of plant and machinery, width, length, height, radius, reach, capacity
 - e recognise blind-spots, potential crush zones and other limitations to operator visibility
 - f control, direct and guide the operation of plant and machinery not being used for lifting operations to extract, excavate, construct, form, receive, transport, access, lay, distribute, compact, process, sweep, clean and clear
 - g assess and determine the movement of extracted and excavated materials or commodities including the formation and removal of stockpiles, unloading, discharging and loading
 - h control, direct and guide the operation of plant and machinery not being used for lifting operations on rough, uneven terrain and in areas of restricted movement
 - i ensure the integrity of equipment, structures, materials and components close to operations while directing and guiding
 - j recognise and utilise measurement and operation monitoring aids, pegs, tapes, strings, lines and levels, electronic guidance equipment, global positioning systems and laser marking devices
 - k check measurements
 - l signal and communicate following recognised and agreed operational procedures
 - m recognise requirements for working on public highways
 - n recognise and determine when specific skills and knowledge are required and report accordingly
 - o use hand tools, ancillary equipment, and signalling and communication equipment
- 8.7 describe the needs of other occupations and how to effectively communicate within a team when controlling, directing and guiding the operation of plant and machinery
- 8.8 describe how to maintain hand tools, ancillary equipment, signalling and communication equipment used to control, direct and guide the operation of plant and machinery.

Unit 741

Controlling, directing and guiding the operation of plant or machinery in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

Unit 742

Locating and excavating to expose buried utility services in the workplace

Unit level:	2
GLH:	80
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• locate and excavate to expose buried utility services.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when locating and excavating to expose buried utility services.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, specifications, schedules, risk assessments, method statements, survey and utility company information and manufacturers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d risk assessments
 - e method statements
 - f permits
 - g verbal, written and graphical instructions
 - h organisational and manufacturers' information
 - i current regulations and official guidance governing utility services

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when locating and excavating to expose buried utility services.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment, whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with movement and storage of materials by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports
- 2.4 describe the types of fire extinguishers available when locating and excavating to expose buried utility services and describe how and when they are used.

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when locating and excavating to expose buried utility services.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when locating and excavating to expose buried utility services
- 3.2 demonstrate compliance with given information and relevant legislation when locating and excavating to expose buried utility services in relation to the following:
 - a safe use, storage and handling of materials, tools and equipment
 - b specific risks to health
 - c working with and around utility services including ground penetration
 - d working in excavations
 - e others affected by the work
- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used, relating to locating and excavating to expose buried

- utility services, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
- a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
- 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries, damage to utilities apparatus and substructures and other task-related activities.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work when locating and excavating to expose buried utility services.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components, tools, equipment and electronic location instruments
 - 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a electronic instruments
 - b marking and protection materials
 - c excavation plant and machinery
 - d hand tools, power tools, and equipment including specialist tools (insulated and non-sparking tools)
 - e ancillary equipment
 - 4.3 describe how to confirm that the resources and materials conform to the specification
 - 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.6 describe any potential hazards associated with the resources and methods of work
 - 4.7 describe how to identify by calculation, the quantity, length, volume and area associated with the method/procedure to locate and excavate to expose buried utility services.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when locating and excavating to expose buried utility services.
-

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
 - 5.2 maintain a clear and tidy work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
 - 5.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when locating and excavating to expose buried utility services.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time
 - 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of productivity targets and timescales
 - b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information when locating and excavating to expose buried utility services to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when locating and excavating to expose buried utility services:
 - a measuring
 - b locating
 - c exposing
 - d marking out
 - e positioning
-

- f protecting
- g securing
- 7.2 use and maintain hand tools, power tools, ancillary equipment and electronic instruments
- 7.3 locate and excavate to expose buried utility services to given working instructions
- 7.4 apply protection measures to utility services
- 7.5 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a confirm the area and location of work, the operations, safety and security requirements including temporary traffic management and immediate area protection
 - b ensure electronic equipment is calibrated
 - c conform to agreed specification and local utility services providers requirements
 - d identify utility services by electronic locators, trial holes and visually
 - e recognise criteria for operating location equipment and their limitations
 - f confirm the type of service including gas, fuel, electric, communication, water sewage
 - g liaise with utility services organisations
 - h recognise identification markers for utility types
 - i excavate by hand and with the assistance of plant or machinery
 - j work with, in close proximity to, and around plant and machinery
 - k recognise the criteria for directing and guiding the operations and movement of plant and machinery
 - l work around street furniture and ironwork
 - m work in excavations, including the need for excavation supports, edge protection and access equipment
 - n provide for the recognition and protection of the utility services, sub-structure and the natural environment during operational activities
 - o install supports for exposed utility services
 - p recognise and determine when specialist skills and knowledge are required and report accordingly
 - q use hand tools, portable power tools and equipment including specialist equipment
 - r use access equipment
 - s work at height
- 7.6 describe the needs of other occupations and how to effectively communicate within a team when locating and excavating to expose buried utility services
- 7.7 describe how to maintain the tools and equipment used to locate and excavate to expose buried utility services.

Unit 742

Locating and excavating to expose buried utility services in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

Unit 743

Cutting, drilling and shaping construction related materials in the workplace

Unit level:	1
GLH:	75
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• cut, drill and shape construction related materials.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when cutting, drilling and shaping construction related materials.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments
 - f manufacturers' information
 - g suppliers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments

- f permits
 - g manufacturers' information
 - h verbal and written instructions
 - i sketches
 - j electronic data
 - k current regulations
 - l official guidance
-

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when cutting, drilling and shaping construction related materials

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment, whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with the movement and storage of materials by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to:
 - a site
 - b workplace
 - c company
 - d operative
 - e vehicles
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports.
- 2.4 describe the types of fire extinguishers available and describe how and when they are used:
 - a water
 - b CO₂
 - c foam
 - d powder

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when cutting, drilling and shaping construction related materials.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements
- 3.2 demonstrate compliance with given information and relevant legislation in relation to at least **two** of the following:
 - a safe use of access equipment
 - b safe use, storage and handling of materials, tools and equipment
 - c specific risks to health
- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
- 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with:
 - a fires
 - b spillages
 - c injuries and other task-related activities.

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to cut, drill and shape construction related materials.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components, fixings, tools, equipment and consumables
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a composites, plastic, masonry, vitreous clay, metal, timber, timber based materials and cementitious materials

- b bituminous materials
 - c geotextiles
 - d jigs and clamps
 - e blades and bits
 - f hand and power tools
- 4.3 describe how to confirm that the resources and materials conform to the specification
- 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.5 explain why the organisational procedures have been developed and how they are used for the selection of the required resources
- 4.6 describe any potential hazards associated with the resources and methods of work
- 4.7 describe how to calculate length, quantity, area and wastage associated with the method and procedure to cut, drill and shape construction related materials.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when cutting, drilling and shaping construction related materials.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
- 5.2 maintain a clear and tidy work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
- a general workplace activities
 - b other occupations
 - c adverse weather conditions
- 5.5 explain why the disposal of waste should be carried out safely in accordance with:
- a environmental responsibilities
 - b organisational procedures
 - c manufacturers' information
 - d statutory regulations
 - e official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when cutting, drilling and shaping construction related materials.
-

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the estimated allocated time
 - 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of productivity targets and timescales
 - b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to cut, drill and shape construction related materials to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills:
 - a measuring
 - b marking out
 - c positioning
 - d securing
 - e severing
 - f cutting
 - g drilling
 - h shaping
 - 7.2 use and maintain hand and power tools
 - 7.3 select tools to cut, drill and shape at least **four** of the following materials to line or mark to given working instructions:
 - a composites
 - b plastic
 - c masonry
 - d vitreous clay
 - e metal
 - f timber and timber based
 - g cementitious
 - h bituminous
 - i geotextiles
 - 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a plan, mark and set out for cutting, severing, drilling and shaping
 - b conform to agreed specifications
-

- c cut, drill, shape and prepare composites, plastic, masonry, vitreous clay, metal, timber and timber based materials, cementitious, bituminous materials and geotextiles for use
 - d operate standard and specialist cutting, drilling and shaping equipment
 - e change cutting, drilling and shaping blades and bits
 - f suppress and control dust, fumes and debris
 - g monitor and check accuracy during progress and on completion of work
 - h recognise hazards not previously identified while cutting, drilling and shaping
 - i recognise and determine when specialist skills and knowledge are required and report accordingly
 - j use hand and power tools
 - k work at height
 - l use access equipment
- 7.5 describe the needs of other occupations and how to communicate effectively within a team
- 7.6 describe how to maintain the tools and equipment used.

Unit 743

Cutting, drilling and shaping construction related materials in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Unit 744

Laying, placing or applying construction related materials in the workplace

Unit level:	1
GLH:	75
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• lay, place or apply construction related materials.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when laying, placing or applying construction related materials.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments
 - f manufacturers' information
 - g suppliers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments

- f manufacturers' information
 - g verbal and written instructions
 - h sketches
 - i electronic data
 - j current regulations
 - k official guidance
-

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when laying, placing or applying construction related materials.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with the movement and storage of materials by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to:
 - a site
 - b workplace
 - c company
 - d operative
 - e vehicles
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports.
- 2.4 describe the types of fire extinguishers available and describe how and when they are used:
 - a water
 - b CO₂
 - c foam
 - d powder

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when laying, placing or applying construction related materials.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements
- 3.2 demonstrate compliance with given information and relevant legislation in relation to at least **two** of the following:
 - a safe use of access equipment
 - b safe use, storage and handling of materials, tools and equipment
 - c specific risks to health
- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
- 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with:
 - a fires
 - b spillages,
 - c injuries
 - d other task-related activities.

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to lay, place or apply construction related materials.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components, fixings, tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:

- a concrete, screeds, sub-base, aggregate, bituminous materials and geotextiles
 - b hand and power tools
- 4.3 describe how to confirm that the resources and materials conform to the specification
- 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.6 describe any potential hazards associated with the resources and methods of work
- 4.7 describe how to calculate quantity, length, area, volume and wastage associated with the method and procedure to lay, place or apply construction related materials.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when laying, placing or applying construction related materials.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
- 5.2 maintain a clear and tidy work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
- a general workplace activities
 - b other occupations
 - c adverse weather conditions
- 5.5 explain why the disposal of waste should be carried out safely in accordance with:
- a environmental responsibilities
 - b organisational procedures
 - c manufacturers' information
 - d statutory regulations
 - e official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when laying, placing or applying construction related materials.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the estimated allocated time.
-

- 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
- a types of productivity targets and time scales
 - b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to lay, place or apply construction related materials to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills:
- a setting out
 - b laying
 - c compacting
 - d levelling
 - e finishing
- 7.2 use and maintain hand and power tools
- 7.3 lay, place or apply at least **three** of the following construction related materials by oneself or with others to given working instructions:
- a top soil or subsoil
 - b granular fill
 - c cohesive fill
 - d concrete
 - e cementitious
 - f bituminous
 - g geotextiles
- 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
- a plan, set out, lay, place, apply, compact and finish the following materials: top soil and sub-soils, granular, cohesive fill, concrete, cementitious, bituminous and geotextiles
 - b conform with agreed specifications
 - c identify and confirm the protection of services
 - d work with, around and in close proximity to plant and machinery including lifting equipment
 - e recognise types of material
 - f identify methods of placement, laying and compaction for different materials
 - g identify requirements for quality control including tests
-

- h recognise and determine when specialist skills and knowledge are required and report accordingly
 - i identify protection criteria for completed work
 - j protect cementitious materials during the curing process
 - k monitor and check the accuracy during progress and on completion of work
 - l use hand and power tools
 - m work at height
 - n use access equipment
- 7.5 describe the needs of other occupations and how to communicate effectively within a team
- 7.6 describe how to maintain the tools and equipment used.

Unit 744

Laying, placing or applying construction related materials in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Unit 745

Preparing and mixing construction related materials in the workplace

Unit level:	1
GLH:	85
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• prepare and mix construction related materials.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when preparing and mixing construction related materials.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments
 - f manufacturers' information
 - g suppliers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d method statements
 - e risk assessments

- f manufacturers' information
 - g verbal and written instructions
 - h sketches
 - i electronic data
 - j current regulations
 - k official guidance
-

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when preparing and mixing construction related materials.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment, whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with the movement and storage of materials by manual handling and mechanical lifting
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to:
 - a site
 - b workplace,
 - c company
 - d operative
 - e vehicles
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports.
- 2.4 Describe the types of fire extinguishers available and describe how and when they are used:
 - a water
 - b CO₂
 - c foam
 - d powder

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when preparing and mixing construction related materials.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements
- 3.2 demonstrate compliance with given information and relevant legislation in relation to at least two of the following:
 - a safe use of access equipment
 - b safe use, storage and handling of materials, tools and equipment
 - c specific risks to health
- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
- 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to prepare and mix construction related materials.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a materials and components,
 - b tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a cementitious materials, resins, adhesives, bonding agents, colourings, waterproof coatings, grouts and pre-mixed compounds

- b hand and power tools
 - 4.3 describe how to confirm that the resources and materials conform to the specification
 - 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.6 describe any potential hazards associated with the resources and methods of work
 - 4.7 describe how to calculate quantity, length, area, volume and wastage associated with the method and procedure to prepare and mix construction related materials.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when preparing and mixing construction related materials.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
 - 5.2 maintain a clear and tidy work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - a general workplace activities
 - b other occupations
 - c adverse weather conditions
 - 5.5 explain why the disposal of waste should be carried out safely in accordance with:
 - a environmental responsibilities
 - b organisational procedures
 - c manufacturers' information
 - d statutory regulations
 - e official guidance
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when preparing and mixing construction related materials.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the estimated allocated time
 - 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
-

- a types of productivity targets, and timescales
 - b times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme
-

Learning outcome

The learner will:

- 7 comply with the given contract information to prepare and mix construction related materials to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills:
 - a measuring
 - b gauging
 - c stirring
 - d mixing
 - e agitating
 - f blending
 - 7.2 use and maintain hand and power tools
 - 7.3 prepare at least **two** of the following materials for use to given working instructions:
 - a cementitious
 - b resins
 - c adhesives
 - d bonding agents
 - e colourings
 - f waterproof coatings
 - g grouts
 - h pre-mixed compounds
 - 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a plan, set out and prepare cementitious materials, resins, adhesives, bonding agents, colourings, water-proof coatings, grouts and pre-mixed compounds for use
 - b conform to agreed specifications
 - c set up, prepare, conduct pre-start checks, start, operate, monitor the operation of and close down specialist mixing machinery and equipment
 - d recognise types of materials and constituents
 - e work with, around and in close proximity to plant or machinery and lifting equipment
 - f monitor and check accuracy during progress and on completion of work
 - g protect constituents and mixed materials
 - h identify requirements for quality control including tests
 - i recognise and determine when specialist skills and knowledge are required and report accordingly
-

- j use hand and power tools
- k use access equipment
- 7.5 describe the needs of other occupations and how to communicate effectively within a team
- 7.6 describe how to maintain the tools and equipment used

Unit 745

Preparing and mixing construction related materials in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against two of the following endorsements detailed within the relevant NVQ structure. Please refer to the NVQ structure applicable to the qualification/occupational area in which the candidate is being assessed.

Unit 746

Installing, maintaining and removing temporary excavation support in the workplace

Unit level:	2
GLH:	86
Unit aim:	To provide the learner with the necessary skills and knowledge to: <ul style="list-style-type: none">• interpret information• adopt safe and healthy working practices• select resources and methods of work• install, maintain and remove temporary excavation support.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when installing, maintaining and removing temporary excavation support.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b specifications
 - c schedules
 - d risk assessments
 - e method statements
 - f manufacturers' information
 - g suppliers' information
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules

- d risk assessments
 - e method statements
 - f manufacturers' information
 - g verbal and written instructions
 - h sketches
 - i electronic data
 - j current regulations
 - k official guidance
-

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when installing, maintaining and removing temporary excavation support.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with the movement and storage of materials by manual handling and mechanical lifting.
- 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to:
 - a site
 - b workplace
 - c company
 - d operative
 - e vehicles
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports.
- 2.4 describe the types of fire extinguishers available and describe how and when they are used:
 - a water
 - b CO₂
 - c foam
 - d powder

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when installing, maintaining and removing temporary excavation support.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements
- 3.2 demonstrate compliance with given information and relevant legislation relating to **three** of the following:
 - a working with and around utility services including ground penetration
 - b safe use of access equipment
 - c safe use, storage and handling of materials, tools and equipment
 - d specific risks to health
- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention, should be used and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
 - a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
- 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with:
 - a fires, spillages, injuries
 - b other task-related activities

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to install, maintain and remove temporary excavation support.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components and fixings, and tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a proprietary systems

- b open and closed support systems
 - c piling systems
 - d bespoke support systems
 - e fixing devices
 - f hand and power tools
- 4.3 describe how to confirm that the resources and materials conform to the specification
- 4.4 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.5 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.6 describe any potential hazards associated with the resources and methods of work
- 4.7 describe how to calculate quantity, length, area and wastage associated with the method and procedure to install, maintain and remove temporary excavation support.
-

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when installing, maintaining and removing temporary excavation support.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
- 5.2 maintain a clean and tidy work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
- a general workplace activities
 - b other occupations
 - c adverse weather conditions
- 5.5 explain why the disposal of waste should be carried out safely in accordance with:
- a environmental responsibilities
 - b organisational procedures
 - c manufacturers' information
 - d statutory regulations
 - e official guidance.
-

Learning outcome

The learner will:

- 6 complete the work within the allocated time when installing, maintaining and removing temporary excavation support.
-

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the estimated allocated time
 - 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of productivity targets and time scales
 - b how times are estimated
 - c organisational procedures for reporting circumstances which will affect the work programme.
-

Learning outcome

The learner will:

- 7 comply with the given contract information to install, maintain and remove temporary excavation support to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills:
 - a measuring
 - b marking out
 - c preparing
 - d positioning
 - e fitting
 - f supporting
 - g fixing
 - h securing
 - i dismantling
 - j removing
 - 7.2 use and maintain hand tools, power tools and ancillary equipment
 - 7.3 install, maintain and remove temporary excavation support to given working instructions, relating to at least one of the following:
 - a proprietary systems e.g. drag box, trench box, manhole box
 - b open and closed support systems
 - c piling systems e.g. diaphragm wall, trench sheets, sheet piles, secant support or contiguous support
 - d bespoke support systems
 - 7.4 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a recognise types of temporary support for excavations
 - b conform to agreed specifications
 - c plan, prepare and set out for the installation of the excavation support and edge protection
-

- d remove surface courses, ironwork, modular components, street furniture and sub-surface structures
 - e recognise changes in ground conditions, ground water conditions, soil types and excavation stability
 - f recognise the dangers of loads and structures at the edge of excavations
 - g identify and locate utility services, excavate around services and protect
 - h recognise inspection and test criteria for excavation support systems
 - i provide for safe access and egress into the excavation and around the temporary excavation support
 - j protect and monitor adjacent structures
 - k excavate manually for the installation, maintenance and removal of excavation supports
 - l construct, erect and install temporary excavation support as excavations progress and on completion including:
 - proprietary systems including but not limited to: drag box, trench box and manhole
 - open and closed support systems
 - piling systems including but not limited to: diaphragm wall, trench sheets, sheet piles, secant support and contiguous support
 - bespoke support systems
 - m monitor and check accuracy at start, during progress and on completion of work
 - n work with, around and in close proximity to plant and machinery including lifting equipment
 - o inspect and maintain the integrity and safety of the temporary support structures
 - p dismantle and remove the excavation support structure
 - q recognise and determine when specialist skills and knowledge are required and report accordingly
 - r use hand and power tools
 - s work at height and in confined spaces
 - t use access equipment
- 7.5 describe the needs of other occupations and how to communicate effectively within a team.
- 7.6 describe how to maintain the tools and equipment used.

Unit 746

Installing, maintaining and removing temporary excavation support in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against one of the following endorsements:

- proprietary system
- open and closed support system
- piling systems
- bespoke support system.

Unit 747

Installing, constructing, maintaining, dismantling and removing temporary works in the workplace

Unit level:	2
GLH:	83
Unit aim:	<p>To provide the learner with the necessary skills and knowledge to:</p> <ul style="list-style-type: none">• interpret information• organise and communicate effectively with others• adopt safe and healthy working practices• select resources and methods of work• install, construct, maintain, dismantle and remove temporary works.

Learning outcome

The learner will:

- 1 interpret the given information relating to the work and resources when installing, constructing, maintaining, dismantling and removing temporary works.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information.
- 1.2 comply with information and/or instructions derived from risk assessments and method statements
- 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
- 1.4 describe different types of information, their source and how they are interpreted in relation to:
 - a drawings
 - b specifications
 - c schedules
 - d method statement
 - e risk assessments
 - f electronic data
 - g written and verbal instructions
 - h permits

- i manufacturers' information
 - j current regulations governing buildings, structures and official guidance associated with installation, construction, maintenance, dismantling and removal of temporary works.
-

Learning outcome

The learner will:

- 2 know how to comply with relevant legislation and official guidance when installing, constructing, maintaining, dismantling and removing temporary works.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities regarding potential accidents, health hazards and the environment, whilst working:
 - a in the workplace
 - b below ground level
 - c in confined spaces
 - d at height
 - e with tools and equipment
 - f with materials and substances
 - g with movement and storage of materials and by manual handling and mechanical lifting
 - 2.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative
 - 2.3 explain what the accident reporting procedures are and who is responsible for making reports.
-

Learning outcome

The learner will:

- 3 maintain safe and healthy working practices when installing, constructing, maintaining, dismantling and removing temporary works.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when installing, constructing, maintaining, dismantling and removing temporary works
 - 3.2 demonstrate compliance with given information and relevant legislation when installing, constructing, maintaining, dismantling and removing temporary works in relation to the following:
 - a safe use of access equipment
-

- b safe use, storage and handling of materials, tools and equipment
 - c specific risks to health
- 3.3 explain why and when health and safety control equipment, identified by the principles of prevention should be used, relating to installing, constructing, maintaining, dismantling and removing temporary works and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:
- a collective protective measures
 - b personal protective equipment (PPE)
 - c respiratory protective equipment (RPE)
 - d local exhaust ventilation (LEV)
- 3.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions
- 3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities.
-

Learning outcome

The learner will:

- 4 select the required quantity and quality of resources for the methods of work to install, construct, maintain, dismantle and remove temporary works.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, components, fixings, tools and equipment.
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a protective measures
 - b materials
 - c supports
 - d components, fittings and fixings
 - e hand tools, portable power tools and equipment
- 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.5 describe any potential hazards associated with the resources and methods of work
- 4.6 describe how to calculate quantity, length, area, volume and wastage associated with the method and procedure to install, construct, maintain, dismantle and remove temporary works.

Learning outcome

The learner will:

- 5 minimise the risk of damage to the work and surrounding area when installing, constructing, maintaining, dismantling and removing temporary works.

Assessment criteria

The learner can:

- 5.1 protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures
- 5.2 maintain a clean and tidy work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions
- 5.5 explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.

Learning outcome

The learner will:

- 6 complete the work within the allocated time when installing, constructing, maintaining, dismantling and removing temporary works.

Assessment criteria

The learner can:

- 6.1 demonstrate completion of the work within the allocated time.
- 6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:
 - a types of progress charts, timetables and estimated times
 - b organisational procedures for reporting circumstances which will affect the work programme.

Learning outcome

The learner will:

- 7 comply with the given contract information to install, construct, maintain, dismantle and remove temporary works to the required specification.

Assessment criteria

The learner can:

- 7.1 Demonstrate the following work skills when installing, constructing, maintaining, dismantling and removing temporary works:
 - a measuring

- b marking out
 - c aligning
 - d altering
 - e assembling
 - f building
 - g erecting
 - h laying
 - i levelling
 - j plumb
 - k installing
 - l checking
 - m monitoring
 - n adjusting
 - o reinforcing
 - p fitting
 - q fixing
 - r positioning
 - s securing
 - t dismantling
 - u removing
- 7.2 use and maintain hand tools, portable power tools and ancillary equipment
- 7.3 install, construct, maintain, dismantle and remove to given working instructions for four of the following as temporary works to allow or enable permanent construction:
- a protective screens, hoardings and covers
 - b access and egress routes
 - c supports
 - d supporting structures
 - e removal equipment
 - f diverting equipment
 - g site facilities
 - h stabilisation
- 7.4 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
- a identify agreed quality requirements
 - b conform to agreed specification
 - c identify the roles of the temporary works supervisor and the temporary work co-ordinator
 - d recognise the characteristics, critical factors of temporary works and interface with existing structures and permanent work
 - e identify temporary works control mechanisms
 - f check resources for type, quantity and damage and report discrepancies
 - g install, construct, maintain, dismantle and remove protective screens, hoardings and covers in order to restrict access and maintain the integrity of the protected items

- h install, construct, maintain, dismantle and remove access and egress routes, new and alterations to existing routes including pedestrian routes, vehicle routes, bridges, decks, openings, stairs, ramps, passing and parking places
 - i assemble, build, align, erect, install, construct, dismantle and remove load bearing supports
 - j assemble, build, align, erect, install, construct, dismantle and remove supports that hold in position including formwork, falsework and excavation support systems
 - k identify the criteria, characteristics and differences between proprietary and bespoke support systems
 - l check and maintain supporting structures including scaffolding, formwork, falsework, props, excavation support and dewatering systems
 - m check condition, support and protection of utilities
 - n recognise the checking, inspection, examination and certification criteria for temporary works
 - o install removal equipment including gantries, hoists, skips, chutes, conveyors, vacuums, pumps and pipework
 - p maintain removal and diverting equipment, including alterations by reinforcement
 - q recognise the criteria for disconnecting, protecting and reconnecting utilities
 - r fit, fix, position, align, secure, dismantle and remove supports and carriage systems, underground and overhead, to divert utility carrying equipment including electric, communications, water (foul, surface and fresh), gas and air
 - s work with, around and in close proximity to plant and machinery
 - t recognise the criteria for directing and guiding the movement and operations of vehicles, plant and machinery
 - u measure, mark out, transfer, set out and maintain lines, plumbs and levels
 - v monitor wear and tear on temporary works and report
 - w recognise and determine when additional specialist skills and knowledge are required and report accordingly
 - x determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
 - y use hand tools, portable power tools and equipment
 - z work at height
 - aa use access equipment
- 7.5 describe the needs of other occupations and how to effectively communicate within a team when installing, constructing, maintaining, dismantling and removing temporary works
- 7.6 describe how to maintain the tools and equipment used when installing, constructing, maintaining, dismantling and removing temporary works.

Unit 747

Installing, constructing, maintaining, dismantling and removing temporary works in the workplace

Supporting Information

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

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

Workplace evidence of skills cannot be simulated.

This unit must be assessed against the following endorsements:

- construction and civil engineering operations.

Plus four of the following:

- protective screens, hoardings and covers
- access and egress routes
- supports
- supporting structures
- removal equipment
- diverting equipment
- site facilities
- stabilisation.

Appendix 1 Relationships to other qualifications

Links to other qualifications

Centres are responsible for checking the different requirements of all qualifications they are delivering and ensuring that candidates meet requirements of all units/qualifications.

Literacy, language, numeracy and ICT skills development

This qualification can develop skills that can be used in the following qualifications:

- Functional Skills (England) – see www.cityandguilds.com/functionalskills
- Essential Skills (Northern Ireland) – see www.cityandguilds.com/essentialskillsni
- Essential Skills Wales – see www.cityandguilds.com/esw

Appendix 2 Sources of general information

The following documents contain essential information for centres delivering City & Guilds qualifications. They should be referred to in conjunction with this handbook. To download the documents and to find other useful documents, go to the [Centre Document Library](http://www.cityandguilds.com) on www.cityandguilds.com or click on the links below:

[Quality Assurance Standards: Centre Handbook](#)

This document is for all approved centres and provides guidance to support their delivery of our qualifications. It includes information on

- Centre quality assurance criteria and monitoring activities
- Administration and assessment systems
- Centre-facing support teams at City & Guilds / ILM
- Centre quality assurance roles and responsibilities.

The Centre Handbook should be used to ensure compliance with the terms and conditions of the Centre Contract.

[Quality Assurance Standards: Centre Assessment](#)

This document sets out the minimum common quality assurance requirements for our regulated and non-regulated qualifications that feature centre assessed components. Specific guidance will also be included in relevant qualification handbooks and/or assessment documentation.

It incorporates our expectations for centre internal quality assurance and the external quality assurance methods we use to ensure that assessment standards are met and upheld. It also details the range of sanctions that may be put in place when centres do not comply with our requirements, or actions that will be taken to align centre marking/assessment to required standards. Additionally, it provides detailed guidance on the secure and valid administration of centre-assessments.

[Access arrangements - When and how applications need to be made to City & Guilds](#)

provides full details of the arrangements that may be made to facilitate access to assessments and qualifications for candidates who are eligible for adjustments in assessment.

The [Centre Document Library](#) also contains useful information on such things as:

- Conducting examinations
- Registering learners
- Appeals and malpractice

Useful contacts

Please visit the Contact Us section of the City & Guilds website, [Contact us](#)

About City & Guilds

As the UK's leading vocational education organisation, City & Guilds is leading the talent revolution by inspiring people to unlock their potential and develop their skills. We offer over 500 qualifications across 28 industries through 8500 centres worldwide and award around two million certificates every year. City & Guilds is recognised and respected by employers across the world as a sign of quality and exceptional training.

City & Guilds Group

The City & Guilds Group is a leader in global skills development. Our purpose is to help people and organisations to develop their skills for personal and economic growth. Made up of City & Guilds, City & Guilds Kineo, The Oxford Group and ILM, we work with education providers, businesses and governments in over 100 countries.

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**City & Guilds of London
Institute**

5-6 Giltspur Street

London EC1A 9DE

www.cityandguilds.com
