

Level 3 NVQ Diploma in Trowel Occupations (Construction) (6570-03)

September 2018 (Version 3.0)

Qualification Handbook

Qualification at a glance

Subject area	Trowel Occupations (Construction)
City & Guilds number	6570
Age group approved	16-18, 19+
Entry requirements	Level 2
Assessments	Portfolio of evidence
Fast track	Available
Support materials	Centre Handbook and Candidate Logbook
Registration and certification	Consult the Walled Garden/Online Catalogue for last dates

Title and level	City & Guilds qualification number	Ofqual accreditation number
Level 3 NVQ Diploma in Trowel Occupations (Construction)	6570-03	600/7858/3

Version and date	Change detail	Section
2.0 May 2014	<ul style="list-style-type: none"> Unit 611(H/503/9506) replaced by Unit 834 (R/504/6774). Unit 711(A/503/9544) replaced by Unit 835 (Y/504/6775). 	Structure Units

Version and date	Change detail	Section
3.0 Sept 2018	<ul style="list-style-type: none"><li data-bbox="518 257 858 392">• CITB incremental changes, refs to Credits removed and TQT added<li data-bbox="518 403 858 542">• Updated Unit 672 with new title, learning outcomes and criteria as per CITB changes	Structure Units

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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 for learners who work or want to work as a bricklayer in the construction sector..
What does the qualification cover?	It allows learners to learn, develop and practise the skills required for employment and/or career progression in bricklaying. It covers areas such as working on a construction site, setting out structures and carrying out complex building work.
What opportunities for progression are there?	Bricklaying has a wide range of opportunities that apprentices can be involved with in a structured career path, such as new builds and refurbishments. The Advanced Apprenticeship will enable progression into occupational work supervision, management or technical support areas.
Is it part of an apprenticeship framework or initiative?	This qualification forms the competence based element of the Advanced Apprenticeship in Construction Building (Level 3), pathway 1: Trowel Occupations.

Structure

To achieve the **Level 3 NVQ Diploma in Trowel Occupations 6570-03**, learners must complete all the mandatory units and at least one of the optional units available.

Unit accreditation number	City & Guilds unit no.	Unit title	Credit value
Mandatory			
A/503/1170	101	Conforming to general health, safety and welfare in the workplace	20
A/503/9463	233	Erecting masonry structures in the workplace	270
R/503/2924	301	Confirming the occupational method of work in the workplace	110
A/503/2772	302	Confirming work activities and resources for an occupational work area in the workplace	100
Y/503/9549	312	Erecting complex masonry structures in the workplace	300
F/503/9545	335	Setting out complex masonry structures in the workplace	260
M/503/2915	501	Developing and maintaining good occupational working relationships in the workplace	80
Y/503/9471	700	Setting out masonry structures in the workplace	220
Optional			
T/503/9476	232	Erecting masonry cladding in the workplace	240
H/503/9490	236	Erecting thin joint masonry structures in the workplace	230
K/503/9538	299	Maintaining slate and tile roofing in the workplace	140
D/600/7695	672	Applying solid render to background surfaces and producing finishes in the workplace	270
R/600/7693	674	Producing internal solid plastering finishes in the workplace	230
L/503/9550	689	Repairing and maintaining masonry structures in the workplace	220
R/504/6774	834	Placing and finishing non-specialist concrete in the workplace	210
Y/504/6775	835	Installing drainage in the workplace	190

Total qualification time and guided learning values

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
Level 3 NVQ Diploma in Trowel Occupations 6570-03	641	1500

2 Centre requirements

Approval

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

Resource requirements

Centre staffing

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

Centres may design course programmes of study in any which way:

- Best meets the needs and capabilities of their learners
- Satisfies the requirements of the qualification.

When designing and delivering the course programme, centres might wish to incorporate other teaching and learning that is not assessed as part of the qualification. This might include the following:

- literacy, language and /or numeracy
- learning and thinking
- personal and social development
- employability.

Where applicable, this could involve enabling the learner to access relevant qualifications covering these skills.

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

Assessors and Internal Quality Assurer

Assessors must have sufficient, verifiable, relevant current industry experience, knowledge and understanding of the occupational working area at, or above, the level being assessed.

This must be of sufficient depth to be effective and reliable when judging learner's competence. Assessor's experience, knowledge and understanding can be verified by a combination of:

- curriculum vitae and employer endorsement
- references
- possession of a relevant NVQ/SVQ, or vocationally related qualification
- corporate membership of relevant professional institution
- interview.

(The verification process must be recorded and available for audit)

Assessors must have sufficient occupational expertise so they have up to date experience, knowledge and understanding of the particular aspects of work they are assessing. This could be verified by records of continuing professional development achievements. Assessors:

- should only assess in their acknowledged area of occupational competence
- shall be prepared to participate in training activities for their continued professional development
- must have a sound, in-depth knowledge of, and uphold the integrity of, the sector's NOS and the Assessment Strategy
- must hold, or be working towards, a qualification as listed within 'Assessing and Assuring Quality of Assessment', either in the Qualifications and Credit Framework (QCF), or the Scottish Credit and Qualifications Framework (SCQF):
 - Level 3 Award in Assessing Competence in the Work Environment
 - Level 3 Certificate in Assessing Vocational Achievement
 - SVQ (SCQF level) Assessing Competence in the Work Environment
 - SVQ (SCQF level) Assessing Vocational Achievement

Or hold one of the following:

- A1 Assess candidates using a range of methods
- D32/33 Assess candidate performance, using differing sources of evidence

Holders of A1 and D32/33 must assess to the reviewed National Occupational Standards (NOS) for Learning and Development.

In Scotland, approval for exemptions must be obtained from the Scottish Qualifications Authority.

Continuing professional development (CPD)

Centres must support their staff to ensure that they have current knowledge of the occupational area, that delivery, mentoring, training, assessment and verification is in line with best practice, and that it takes account of any national or legislative developments.

Learner entry requirements

City & Guilds does not set entry requirements for this qualification. However, centres must ensure that learners have the potential and opportunity to gain the qualification 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

We recommend that centres provide an induction programme so 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 this qualification:

Description	How to access
Qualification approval form	Available to download from the City & Guilds website
Candidate logbook	Available to download from the City & Guilds website
SmartScreen	www.smartscreen.co.uk

Recording documents

Candidates and centres may decide to use a paper-based or electronic method of recording evidence.

City & Guilds endorses several ePortfolio systems, including our own, Learning Assistant, 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* including examples of completed forms, for new and existing centres to use as appropriate. Recording forms 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 verifier, 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

Assessment of the qualification

Candidates must have a completed portfolio of evidence for each unit.

Centres are able to download the 6570 logbook from the City and Guilds website.

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.

An 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.

5 Units

Structure of the units

These units each have the following:

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

Unit 101

Confirming to general health, safety and welfare in the workplace

UAN:	A/503/1170
Level:	1
TQT:	20
GLH:	7
Relationship to NOS:	This unit is linked to NOS COSVR641 Conform to general workplace health, safety and welfare.
Unit aim:	The aim of this unit is to provide the learner with an awareness of: current statutory requirements and official guidance responsibilities, to self and others, relating to workplace health, safety and welfare personal behaviour in the workplace 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:
 - a the workplace
 - b the general public
 - c site personnel
 - d resources

Unit 101

Conforming to general health, safety and welfare in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

Unit 232

Erecting masonry cladding in the workplace

Level:	2
TQT:	240
GLH:	80
Relationship to NOS:	This unit is linked to the NOS COSVR42 Erect masonry cladding
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials, components and equipment preparing and erecting brickwork and blockwork and/or local material to pre-erected structures

Learning outcome

The learner will:

1. interpret the given information relating to the work and resources when erecting masonry cladding.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f 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 risk assessments
 - c method statements
 - d schedules
 - e manufacturers' information
 - f regulations governing buildings.
-

Learning outcome

The learner will:

2. know how to comply with relevant legislation and official guidance when erecting masonry cladding.

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
 - g 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
 - 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 erecting masonry cladding.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment and access equipment safely to carry out the activity in accordance with current legislation and organisational requirements when erecting masonry cladding
- 3.2 comply with information relating to specific risks to health when erecting masonry cladding
- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to erecting masonry cladding, 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
 - b spillages
 - c injuries
 - d 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 masonry cladding.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a materials
 - b components and fixings
 - c tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a bricks
 - b blocks
 - c mortars
 - d frames
 - e insulation
 - f damp-proof barriers
 - g lintels
 - h fixings
 - i ties

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

Learning outcome

The learner will:

5. minimise the risk of damage to the work and surrounding area when erecting masonry cladding.

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 minimise damage and maintain a clean work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - 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 erecting masonry cladding.

Assessment criteria

The learner will:

- 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 erect masonry cladding to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when erecting masonry cladding:
 - a measuring
 - b marking out
 - c laying
 - d positioning
 - e securing
- 7.2 erect brick and block and/or local material cladding to given working instructions, including the formation of door and window openings and joint finishes, for one of the following structures:
 - a pre-erected timber frame
 - b pre-erected concrete
 - c pre-erected steel
 - d existing
 - e safely use:
 - f materials
 - g hand tools
 - h portable power tools
 - i ancillary equipment
- 7.3 safely store the materials, tools and equipment used when erecting masonry cladding
- 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 erect brick, traditional and thin joint blocks cladding to pre-erected timber frame, concrete, steel and existing structures
 - b clad structures using local materials
 - c lay bricks, blocks (traditional and thin joint)
 - d form joint finishes
 - e form openings for doors and windows
 - f prop and support structures
 - g complete and remove temporary structures
 - h position damp-proof barriers
 - i mix mortar
 - j use hand tools, power tools and equipment
 - k work with plant and machinery
 - l work at height
 - m use access equipment
- 7.5 describe the needs of other occupations and how to effectively communicate within a team when erecting masonry cladding
- 7.6 describe how to maintain the tools and equipment used when erecting masonry cladding.

Unit 232

Erecting masonry cladding in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

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

Unit 233

Erecting masonry structures in the workplace

Level:	2
TQT:	270
GLH:	90
Relationship to NOS:	This unit is linked to the NOS COSVR40 Erect masonry structures
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials, components and equipment preparing and erecting brickwork and blockwork and/or structures of local materials and styles

Learning outcome

The learner will:

1. interpret the given information relating to the work and resources when erecting masonry structures.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f manufactures' 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 risk assessments
 - d method statements
 - e schedules
 - f manufacturers' information

g regulations governing buildings.

Learning outcome

The learner will:

2. know how to comply with relevant legislation and official guidance when erecting masonry structures.

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
 - g 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
 - 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 erecting masonry structures.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment and access equipment safely to carry out the activity in accordance with current legislation and organisational requirements when erecting masonry structures
- 3.2 comply with information relating to specific risks to health when erecting masonry structures
- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to erecting masonry 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)
 - 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
 - b spillages
 - c injuries
 - d 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 masonry structures.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a materials
 - b components
 - c fixings
 - d tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a bricks
 - b blocks
 - c mortars
 - d frames
 - e insulation
 - f damp-proof barriers
 - g lintels
 - h fixings
 - i ties

- j hand and/or powered tools and equipment
 - 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.5 describe any potential hazards associated with the resources and methods of work
 - 4.6 describe how to calculate quantity, length, area and wastage associated with the method/procedure to erect masonry structures.
-

Learning outcome

The learner will:

- 5. minimise the risk of damage to the work and surrounding area when erecting masonry 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 minimise damage and maintain a clean work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - 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 erecting masonry 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 progress charts, timetables and estimated times
 - 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 masonry structures to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when erecting masonry structures:
 - a measuring
 - b marking out
 - c laying
 - d positioning
 - e securing
- 7.2 erect masonry in brick and block and/or local materials to given working instructions for the following:
 - a cavity wall structures
 - b blockwork structures
 - c solid wall structures
 - d door and window openings
 - e joint finishes
- 7.3 safely use:
 - a materials
 - b hand tools
 - c portable power tools
 - d ancillary equipment
- 7.4 safely store the materials, tools and equipment used when erecting masonry structures
- 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 erect cavity walling and solid walling using brick and block and local materials
 - b erect walling of the local style
 - c lay blocks (traditional and thin joint)
 - d determine brick and block bonds
 - e form joint finishes
 - f form openings for doors and windows
 - g prop and support structures
 - h complete and remove temporary works

- i position insulation materials
 - j position damp-proof barriers, cavity trays and weep holes
 - k position wall ties
 - l mix mortar
 - m use hand tools, power tools and equipment
 - n work with plant and machinery
 - o work at height
 - p use access equipment
- 7.6 describe the needs of other occupations and how to effectively communicate within a team when erecting masonry structures
- 7.7 describe how to maintain the tools and equipment used when erecting masonry structures.

Unit 233

Erecting masonry structures in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

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

Unit 236

Erecting thin joint masonry structures in the workplace

Level:	2
Credit value:	230
GLH:	77
Relationship to NOS:	This unit is linked to the NOS COSVR44 Erect thin joint masonry structures
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials, components and equipment preparing and erecting thin joint block masonry structures

Learning outcome

The learner will:

1. interpret the given information relating to the work and resources when erecting thin joint masonry structures.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f 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 risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f manufactures' information

g regulations governing buildings.

Learning outcome

The learner will:

2. know how to comply with relevant legislation and official guidance when erecting thin joint masonry structures.

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
 - g 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
 - 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 erecting thin joint masonry structures.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment and access equipment safely to carry out the activity in accordance with current legislation and organisational requirements when erecting thin joint masonry structures
 - 3.2 comply with information relating to specific risks to health when erecting thin joint masonry structures
-

- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to erecting thin joint masonry 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)
 - 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
 - b spillages
 - c injuries
 - d 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 thin joint masonry structures.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a materials
 - b components and fixings
 - c tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a blocks
 - b joining compounds
 - c frames
 - d insulation
 - e damp-proof barriers
 - f lintels
 - g fixings
 - h ties
 - i hand and/or powered tools and equipment
- 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.5 describe any potential hazards associated with the resources and methods of work
- 4.6 describe how to calculate quantity, length, area and wastage associated with the method/procedure to erect thin joint masonry structures.

Learning outcome

The learner will:

5. minimise the risk of damage to the work and surrounding area when erecting thin joint masonry 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 minimise damage and maintain a clean work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - 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 erecting thin joint masonry 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 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 erect thin joint masonry structures to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when erecting thin joint masonry structures:
 - a measuring
 - b marking out
 - c cutting
 - d preparing
 - e laying
 - f positioning
 - g securing
- 7.2 erect thin joint masonry block structures to given working instructions for three of the following:
 - a cavity wall structures
 - b solid wall structures
 - c form door and window openings
 - d mix jointing compounds
- 7.3 safely use:
 - a materials
 - b hand tools
 - c portable power tools
 - d ancillary equipment
- 7.4 safely store the materials, tools and equipment used when erecting thin joint masonry structures
- 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 erect cavity walling and solid walling using thin joint blocks
 - b determine thin joint block bonds
 - c level bed (course one)
 - d form openings for doors and windows
 - e position damp-proof barriers
 - f position and fix ties
 - g mix jointing compound
 - h work with plant and machinery
 - i use hand tools, power tools and equipment
 - j work at height
 - k use access equipment
- 7.6 describe the needs of other occupations and how to effectively communicate within a team when erecting thin joint masonry structures
- 7.7 describe how to maintain the tools and equipment used when erecting thin joint masonry structures.

Unit 236

Erecting thin joint masonry structures in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

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

Unit 299

Maintaining slate and tile roofing in the workplace

Level:	2
TQT:	140
GLH:	47
Relationship to NOS:	This unit is linked to the NOS COSVR47 Maintain slate and tile roofing
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials, components and equipment preparing and carrying out repair of specified areas of slate and tiled roofs

Learning outcome

The learner will:

1. interpret the given information relating to the work and resources when maintaining slate and tile roofing.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f 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 risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f manufacturers' information
 - g regulations governing buildings.
-

Learning outcome

The learner will:

2. know how to comply with relevant legislation and official guidance when maintaining slate and tile roofing.

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
 - g 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 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 maintaining slate and tile roofing.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment and access equipment safely to carry out the activity in accordance with current legislation and organisational requirements when maintaining slate and tile roofing
- 3.2 comply with information relating to specific risks to health when maintaining slate and tile roofing
- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to maintaining slate and tile roofing, 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
 - b spillages
 - c injuries
 - d other task-related hazards.

Learning outcome

The learner will:

4. select the required quantity and quality of resources for the methods of work to maintain slate and tile roofing.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a materials
 - b components and fixings
 - c tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a slates
 - b tiles
 - c battens
 - d underlays
 - e sand
 - f cement
 - g limes
 - h vents

- i lead
 - j additives
 - k guttering
 - l downpipes
 - m fixings
 - n hand and/or powered tools and equipment
- 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.5 describe any potential hazards associated with the resources and methods of work
 - 4.6 describe how to calculate quantity, length, area and wastage associated with the method/procedure to maintain slate and tile roofing.

Learning outcome

The learner will:

5. minimise the risk of damage to the work and surrounding area when maintaining slate and tile roofing.

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 minimise damage and maintain a clean work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - 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 maintaining slate and tile roofing.

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 maintain slate and tile roofing to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when maintaining slate and tile roofing:
 - a measuring
 - b marking out
 - c removing
 - d fitting
 - e positioning
 - f securing
- 7.2 repair specified roof areas to given working instructions for four of the following:
 - a slate roofs (local material and style)
 - b tiled roofs (local material and style)
 - c flashings
 - d roof ventilation
 - e rainwater goods
- 7.3 safely use:
 - a materials
 - b hand tools
 - c portable power tools
 - d ancillary equipment
 - e safely store the materials, tools and equipment used when maintaining slate and tile roofing

- 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 remove existing battens, underlays, slates and tiles
 - b replace new battens and underlays
 - c remove, replace and treat lead work/flashings (patianation oil)
 - d re-point
 - e position and secure roof ventilation
 - f remove and replace guttering and downpipes
 - g mix mortar
 - h work with plant and machinery
 - i use hand tools, power tools and equipment
 - j work at height
 - k use access equipment
- 7.5 describe the needs of other occupations and how to effectively communicate within a team when maintaining slate and tile roofing
- 7.6 describe how to maintain the tools and equipment used when maintaining slate and tile roofing.

Unit 299

Maintaining slate and tile roofing in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

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

Unit 301

Confirming the occupational method of work in the workplace

Level:	3
Credit value:	110
GLH:	37
Relationship to NOS:	This unit is linked to the NOS COSVR211 Confirm the occupational method of work
Unit aim:	The aim of this unit is to provide the learner with an awareness of: assessing project data to determine occupational work methods adopting safe and healthy working practices selecting the methods of work confirming the methods of work to the relevant people associated with the occupation sourcing additional information

Learning outcome

The learner will:

1. assess available project data accurately to determine the occupational method of work.

Assessment criteria

The learner can:

- 1.1 interpret and extract information from:
 - a drawings
 - b specifications
 - c schedules
 - d manufacturer's information
 - e methods of work
 - f risk assessments
 - g programmes of work

- 1.2 explain how to summarise the following project data:
 - a required quantities
 - b specifications
 - c detailed drawings
 - d health and safety requirements
 - e timescales
 - f scope of works
 - 1.3 explain the different methods of assessing available project data
 - 1.4 explain how to use project data to interpret the work method, in relation to:
 - a standard work procedures
 - b sequence of work
 - c organisation of resources (people, equipment, materials)
 - d work techniques
 - e working conditions (health, safety and welfare)
 - f risk assessment.
-

Learning outcome

The learner will:

2. obtain additional information from alternative sources in cases where the available project data is insufficient.

Assessment criteria

The learner can:

- 2.1 collect and collate additional information from alternative sources to clarify the work to be carried out
 - 2.2 explain different methods and techniques of obtaining additional information from the following alternative sources when available project data is insufficient:
 - a customers or representatives
 - b suppliers
 - c regulatory authorities
 - d manufacturer's literature.
-

Learning outcome

The learner will:

3. identify work methods that will make best use of resources and meet project, statutory and contractual requirements.

Assessment criteria

The learner can:

- 3.1 examine potential work methods to carry out the occupational work activity
- 3.2 determine which work methods will make best use of relevant resources and meet health and safety requirements relating to technical and/or project criteria

- 3.3 explain how to identify work methods that make best use of resources and meet project, statutory and contractual requirements against technical criteria, in relation to:
 - a health and safety welfare (principles of protection)
 - b fire protection
 - c access and egress
 - d equipment availability
 - e availability of competent workforce
 - f pollution risk
 - g waste and disposal
 - h zero and low carbon outcomes
 - i weather conditions
 - 3.4 explain how to identify work methods that make best use of resources and meet project, statutory and contractual requirements against project criteria, in relation to:
 - a conforming to statutory requirements
 - b customer and user needs
 - c contract requirements in terms of time, quantity and quality
 - d environmental considerations
 - 3.5 explain how different methods of work can achieve zero/low carbon outcomes.
-

Learning outcome

The learner will:

4. confirm and communicate the selected work method to relevant personnel.

Assessment criteria

The learner can:

- 4.1 confirm the selected occupational work method that meets project, statutory and contractual requirements
- 4.2 communicate appropriately to relevant people on the selected occupational work method
- 4.3 describe the different techniques and methods of confirming and communicating work methods to relevant people
- 4.4 explain the principles of equality and diversity and how to apply them when working and communicating with others.

Unit 301

Confirming the occupational method of work in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

Unit 302

Confirming work activities and resources for an occupational work area in the workplace

Level:	3
TQT:	100
GLH:	33
Unit aim:	The aim of this unit is to provide the learner with an awareness of: identifying the work activities involved adopting safe and healthy working practices identifying resources to carry out the work confirmation of a work programme/schedule for the occupational area of work being carried out

Learning outcome

The learner will:

1. identify work activities, assess required resources and plan the sequence of work.

Assessment criteria

The learner can:

- 1.1 identify work activities, assess required resources and plan the sequence of work
- 1.2 identify work activities and formulate a plan for their own sequence of work
- 1.3 explain the types of work relative to the occupational area and how to identify different work activities
- 1.4 explain methods of assessing the resources needed from a range of available information
- 1.5 explain the required information and the different methods used to prepare a work programme relative to the occupational area.

Learning outcome

The learner will:

2. obtain clarification and advice where the resources required are not available.

Assessment criteria

The learner can:

- 2.1 seek advice and clarity from appropriate sources on resources available and the alternatives that can be used for the work when required resources are not available
- 2.2 explain the different sources and methods that can be used to obtain clarification and advice when the required resources are not available.

Learning outcome

The learner will:

3. evaluate the work activities and the requirements of any significant external factors against the project requirements.

Assessment criteria

The learner can:

- 3.1 assess progress of work against project requirements, taking into account external factors relating to:
 - a other occupations and /or customers
 - b resources
 - c weather conditions
 - d health and safety requirements
- 3.2 explain different methods of evaluating work activities against the following project requirements:
 - a contract conditions
 - b contract programme
 - c health and safety requirements of operatives
- 3.3 evaluate the requirements of significant external factors that could affect the progress of work, in relation to:
 - a other related programmes
 - b special working conditions
 - c weather conditions
 - d other occupations/people
 - e resources
 - f health and safety requirements

Learning outcome

The learner will:

4. identify work activities which influence each other and make the best use of the resources available.

Assessment criteria

The learner can:

- 4.1 determine work activities that have an influence on each other
- 4.2 evaluate which work activities make the best use of available resources in relation to:
 - a occupations and/or customers associated with the work
 - b tools, plant and/or ancillary equipment
 - c materials and components
- 4.3 explain different methods and sources that can identify which work activities influence each other
- 4.4 describe how to determine the sequence of work activities and how long each work activity will take
- 4.5 describe what zero and low carbon requirements are
- 4.6 explain how work activities and different ways of using resources can impact on zero and low carbon requirements, and make a positive contribution to the environment.

Learning outcome

The learner will:

5. identify changed circumstances that require alterations to the work programme and justify them to decision makers.

Assessment criteria

The learner can:

- 5.1 evaluate project progress against the work programme to identify any changed circumstances
- 5.2 inform line management and/or customers on the type and extent of any required changes to the work programme
- 5.3 explain how to identify possible alterations to the work programme to meet changed circumstances relating to:
 - a actions lists
 - b method statements
 - c duration
 - d schedules
 - e occupation specific requirements
- 5.4 explain how to assess contractual/work effects resulting from alterations to the work programme
- 5.5 explain the methods used to justify to decision makers on the effects resulting from alterations to the work programme.

Unit 302

Confirming work activities and resources for an occupational work area in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

Unit 312

Erecting complex masonry structures in the workplace

Level:	3
Credit value:	300
GLH:	100
Relationship to NOS:	This unit is linked to the NOS COSVR49 Erect complex masonry structures
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials, components and equipment preparing and erecting brickwork and blockwork and/or structures of local materials, incorporating arches, curves, chimneys, battered and decorative features

Learning outcome

The learner will:

1. interpret the given information relating to the work and resources when erecting complex masonry structures.

Assessment criteria

The learner will:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f 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 risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f manufacturers' information
 - g regulations governing buildings.
-

Learning outcome

The learner will:

2. know how to comply with relevant legislation and official guidance when erecting complex masonry structures.

Assessment criteria

The learner will:

- 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
 - g 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
- 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 erecting complex masonry structures.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment and access equipment safely to carry out the activity in accordance with current legislation and organisational requirements when erecting complex masonry structures
- 3.2 comply with information relating to specific risks to health when erecting complex masonry structures
- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to erecting complex masonry 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)
 - 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
 - b spillages
 - c injuries
 - d 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 complex masonry structures.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a materials
 - b components and fixings
 - c tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a bricks
 - b blocks
 - c mortars
 - d frames
 - e insulation
 - f damp-proof barriers
 - g lintels
 - h fixings and ties
 - i hand and/or powered tools and equipment
- 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported

- 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.5 describe any potential hazards associated with the resources and methods of work
- 4.6 describe how to calculate quantity, length, area and wastage associated with the method/procedure to erect complex masonry structures.

Learning outcome

The learner will:

5. minimise the risk of damage to the work and surrounding area when erecting complex masonry 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 minimise damage and maintain a clean work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - 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 erecting complex masonry 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 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 erect complex masonry structures to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when erecting complex masonry structures:
 - a measuring
 - b checking
 - c marking out
 - d laying
 - e positioning
 - f securing
- 7.2 erect complex masonry in brick and block and/or local materials to given working instructions, including forming joint finishes, for three of the following:
 - a arches
 - b chimney stacks or fireplaces
 - c walls with flush, projecting or decorative features
 - d walls curved on plan
 - e walls splayed on plan
- 7.3 safely use:
 - a materials
 - b hand tools
 - c portable power tools
 - d ancillary equipment
- 7.4 safely store the materials, tools and equipment used when erecting complex masonry structures

- 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 erect cavity walling and solid walling using brick, traditional and thin joint blocks and local materials
 - b erect walls using local materials and styles
 - c lay blocks (traditional and thin joint)
 - d work overhand
 - e form openings for doors and windows
 - f install fixings, cramps and ties
 - g form arches (rough, axed, purpose-made)
 - h form walls flush, projecting and decorative features
 - i form walls curved on plan and check with trammel, templates and bay moulds
 - j form walls splayed on plan and check with templates and bay moulds
 - k form walls curved and ramped in elevation and set out and check with trammels and profiles
 - l prop and support structures
 - m complete and remove temporary works
 - n form joint finishes
 - o select and install vertical and horizontal reinforcement
 - p position damp-proof barriers
 - q mix mortar
 - r work with plant and machinery
 - s use hand tools, power tools and equipment
 - t work at height
 - u use access equipment
- 7.6 describe the needs of other occupations and how to effectively communicate within a team when erecting complex masonry structures
- 7.7 describe how to maintain the tools and equipment used when erecting complex masonry structures.

Unit 312

Erecting complex masonry structures in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated except for the following items from assessment criteria 7.2 and must only form one of the three items required :

arches

chimney stacks or fireplaces.

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 335

Setting out complex masonry structures in the workplace

Level:	3
TQT:	220
GLH:	87
Relationship to NOS:	This unit is linked to the NOS COSVR48 Set out complex masonry structures
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials, components and equipment setting out complex brickwork and blockwork and/or structures in local materials and styles

Learning outcome

The learner will:

1. interpret the given information relating to the work and resources when setting out complex masonry structures.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f manufacturers' information
 - g building regulations
- 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 risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f manufacturers' information
 - g regulations governing buildings.
-

Learning outcome

The learner will:

2. know how to comply with relevant legislation and official guidance when setting out complex masonry structures.

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
 - g 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
 - 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 complex masonry structures.

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 setting out complex masonry structures
- 3.2 comply with information relating to specific risks to health when setting out complex masonry structures
- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to setting out complex masonry 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)
 - 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
 - b spillages
 - c injuries
 - d other task-related hazards.

Learning outcome

The learner will:

4. select the required quantity and quality of resources for the methods of work to set out complex masonry structures.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a materials
 - b components and fixings
 - c hand tools
 - d setting out equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a levels
 - b lines
 - c trammels
 - d templates
 - e profiles
 - f tape measures
 - g pegs
 - h squares and fixings
 - i hand tools
 - j setting out equipment

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

Learning outcome

The learner will:

5. minimise the risk of damage to the work and surrounding area when setting out complex masonry 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 minimise damage and maintain a clean work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - 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 setting out complex masonry 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 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 complex masonry structures to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when setting out complex masonry structures:
 - a measuring
 - b marking out
 - c levelling
 - d positioning
 - e securing
- 7.2 set out complex masonry structures on level and/or sloping ground to given working instructions for one of the following:
 - a curved
 - b splayed
 - c angled
 - d safely use:
 - e materials
 - f hand tools
 - g setting out equipment
- 7.3 safely store the materials, tools and equipment used when setting out complex masonry structures
- 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 and check regular and irregular shaped brick, traditional and thin joint blocks and structures of local materials and styles on level and sloping ground
 - b set out and check curved and splayed, angled and battered brick and block and walls of local materials
 - c construct profiles
 - d transfer levels (spirit level, straight-edge, water levels, laser level, optical levels and ancillary equipment)
 - e use hand tools and setting out equipment
- 7.5 describe the needs of other occupations and how to effectively communicate within a team when setting out complex masonry structures
- 7.6 describe how to maintain the tools and equipment used when setting out complex masonry structures.

Unit 335

Setting out complex masonry structures in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

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

Unit 501

Developing and maintaining good occupational working relationships in the workplace

Level:	5
TQT:	80
GLH:	27
Relationship to NOS:	This unit is linked to the NOS COSVR210 Develop and maintain good working relationships
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices working with, informing and supporting people developing and maintaining good occupational working relationships

Learning outcome

The learner will:

1. develop, maintain and encourage working relationships to promote good will and trust.

Assessment criteria

The learner can:

- 1.1 give appropriate advice and information to relevant people about the occupational work activities and/or associated occupations involved
- 1.2 apply the principles of equality and diversity by considering the needs of individuals when working and communicating with others
- 1.3 explain the methods and techniques used and personal attributes required to encourage and maintain working relationships that promote goodwill and trust with relevant people
- 1.4 explain the principles of equality and diversity and how to apply them when working and communicating with others.

Learning outcome

The learner will:

2. inform relevant people about work activities in an appropriate level of detail, with the appropriate level of urgency.

Assessment criteria

The learner can:

- 2.1 communicate on the following work activity information to relevant people following organisational procedures:
 - a appropriate timescales
 - b health and safety requirements
 - c co-ordination of work procedures
- 2.2 explain the different methods and techniques used to inform relevant people about work activities
- 2.3 explain the effects of not informing relevant people with the expected level of urgency
- 2.4 explain the different types of work activity related information and to what level of detail the following people would expect to receive:
 - a colleagues
 - b employers
 - c customers
 - d contractors
 - e suppliers of products and services
 - f other people affected by the work/project.

Learning outcome

The learner will:

3. offer advice and help to relevant people about work activities and encourage questions/requests for clarification and comments.

Assessment criteria

The learner can:

- 3.1 give appropriate advice and information to relevant people about the different methods of carrying out occupational work activities to achieve the required outcome
- 3.2 explain the techniques of encouraging questions and/or requests for clarification and comments

- 3.3 explain the different ways of offering advice and help to different people about work activities, in relation to:
- a progress
 - b results
 - c achievements
 - d occupational problems
 - e occupational opportunities
 - f health and safety requirements
 - g co-ordinated work.
-

Learning outcome

The learner will:

- 4. clarify proposals with relevant people and discuss alternative suggestions.

Assessment criteria

The learner will:

- 4.1 engage regular discussions with relevant people about the occupational work activity and/or other occupations involved
 - 4.2 explain the methods of clarifying alternative proposals with relevant people
 - 4.3 explain the methods of suggesting alternative proposals.
-

Learning outcome

The learner will:

- 5. resolve differences of opinion in ways that minimise offence and maintain goodwill, trust and respect.

Assessment criteria

The learner will:

- 5.1 examine and agree the work activities that satisfy all people involved and will meet the required outcome of the proposed method of work
- 5.2 explain the methods and techniques used to resolve differences of opinion in ways which minimise offence and maintain goodwill, trust and respect.

Unit 501

Developing and maintaining good occupational working relationships in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated

Unit 672

Applying solid render to background surfaces and producing finishes in the workplace

Level:	2
TQT:	270
GLH:	73
Relationship to NOS:	This unit is linked to the NOS COSVR67 Produce external solid render finishes
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials and equipment preparing materials and applying render to external backgrounds

Learning outcome

The learner will:

1. interpret the given information relating to the work and resources when applying solid render to background surfaces and producing finishes.

Assessment criteria

The learner can:

- 1.1 interpret and extract information from:
 - a drawings
 - b specifications
 - c schedules
 - d 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 manufacturers' information
 - e current regulations governing buildings.

Learning outcome

The learner will:

2. know how to comply with relevant legislation and official guidance when applying solid render to background surfaces and producing finishes.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities under current legislation and official guidance 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
 - g 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
- 2.3 explain what the accident reporting procedures are and who is responsible for making reports.

Learning outcome

The learner will:

3. maintain safe working practices when applying solid render to background surfaces and producing finishes.

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 applying solid render to background surfaces and producing finishes.
- 3.2 demonstrate compliance with given information and relevant legislation when applying solid render to background surfaces and producing finishes in relation to the following:
 - a Safe use of access equipment/working platforms
 - 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 should be used, relating to applying solid render to background surfaces and producing finishes 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 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 hazards.
-

Learning outcome

The learner will:

4. select the required quantity and quality of resources for the methods of work to apply solid render to background surfaces and produce finishes.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to materials, tools and equipment.
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a render, sand, lime, cement and additives
 - b bellcasts and beads
 - c expanded metal lath (EML)
 - d dash, rough-cast (harling, wet dash), proprietary pre-cast finish, synthetic and non-synthetic renders
 - e reinforcement, stress patches, sealants, fixings and fittings
 - f hand tools, portable powered tools and ancillary equipment
- 4.3 describe how the resources should be used correctly and how the 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 method of work
- 4.6 describe how to calculate quantity, length, area and wastage associated with the method/procedure to apply external solid render to background surfaces and produce finishes.

Learning outcome

The learner will:

5. minimise the risk of damage to the work and surrounding area when applying solid render to background surfaces and producing finishes.

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 minimise damage and maintain a clean work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - 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 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 applying solid render to background surfaces and producing finishes.

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 apply solid render to background surfaces and produce finishes to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when:
 - a measuring
 - b marking out
 - c mixing
 - d applying
 - e finishing
 - f use and maintain hand tools, portable power tools and ancillary equipment
 - g apply base coats, reinforcing mesh and stress patches
- 7.2 prepare background surfaces, mix and apply solid render to bellcasts, internal and external angles, walls, reveals and soffits and to one of the following background surfaces to given working instructions:
 - a brick
 - b block
 - c concrete
 - d rubble stone masonry
 - e external insulation
 - f expanded metal lath (EML)
- 7.3 produce a plain-faced finish coat to external walls and/or external insulation plus one of the following finishes to working instructions:
 - a dash
 - b rough-cast (harling, wet dash)
 - c synthetic and non-synthetic renders
 - d proprietary pre-cast
- 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 carry out pre-installation checks to include structural integrity, dampness, vents, services (gas, electric, water, media cables)
 - b mix render to the required strength for background surfaces and supporting fixtures
 - c prepare backgrounds surfaces
 - d recognise the procedures to check flues and combustion air ventilation
 - e understand the implications of existing guarantees and warranties
 - f apply base coats, reinforcing mesh and stress patches
 - g apply multiple coat renders to external walls
 - h form internal and external angles, reveals, expansion joints and bellcasts
 - i position, secure and apply renders to expanded metal lath (EML)
 - j apply, dash, plain faced coat, rough-cast (harling, wet-dash), synthetic and non-synthetic renders, proprietary pre-cast finishes and sealants to external surfaces and external insulation including door and window reveals
 - k complete post installation checks: compliance with specifications, resistance to water penetration, anchorage/fixing, vents, services (gas, electric, water, media cables)
 - l recognise and determine when specialist skills and knowledge are required and report accordingly
 - m understand specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
 - n use hand tools, portable power tools and ancillary equipment
 - o work at height
 - p use access equipment/working platforms
- 7.5 describe the needs of other occupations and how to effectively communicate within a team when applying solid render to background surfaces and producing finishes
- 7.6 describe how to maintain the tools and equipment used when applying solid render to background surfaces and producing finishes

Unit 672

Applying solid render to background surfaces and producing finishes in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

Unit 674

Producing internal solid plastering finishes in the workplace

Level:	2
TQT:	230
GLH:	73
Relationship to NOS:	This unit is linked to the NOS COSVR66 Produce internal solid plastering finishes
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials and equipment preparing and applying one- and two-coat plaster to internal backgrounds.

Learning outcome

The learner will:

1. interpret the given information relating to the work and resources when producing internal solid plastering finishes.

Assessment criteria

The learner can:

- 1.1 interpret and extract information from:
 - a drawings
 - b specifications
 - c schedules
 - d 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 drawings
 - b specifications
 - c schedules
 - d manufacturers' information
 - e regulations governing buildings.

Learning outcome

The learner will:

2. know how to comply with relevant legislation and official guidance when producing internal solid plastering finishes.

Assessment criteria

The learner can:

- 2.1 describe their responsibilities under current legislation and official guidance 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
 - g 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
- 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 producing internal solid plastering finishes.

Assessment criteria

The learner can:

- 3.1 use personal protective equipment (ppe) and access equipment/working platforms safely to carry out the activity in accordance with legislation and organisational requirements when producing internal solid plastering finishes
- 3.2 explain why and when personal protective equipment (ppe) should be used, relating to producing internal solid plastering finishes, 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:
 - a fires
 - b spillages
 - c injuries
 - d other task-related hazards.

Learning outcome

The learner will:

4. select the required quantity and quality of resources for the methods of work to produce internal solid plastering finishes.

Assessment criteria

The learner can:

- 4.1 describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to:
 - a undercoat and finishing plasters, sands, limes, cement and additives
 - b beads and trims, scrim and tapes
 - c manufactured boards and expanded metal lath (EML)
 - d hand and/or powered tools and equipment
- 4.2 select resources associated with own work in relation to materials, tools and equipment
- 4.3 state:
 - a how the resources should be used correctly
 - b how problems associated with the resources are reported
 - c 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, length, area and wastage associated with the method/procedure to produce internal solid plastering finishes.

Learning outcome

The learner will:

5. minimise the risk of damage to the work and surrounding area when producing internal solid plastering finishes.

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:
 - a general workplace activities
 - b other occupations
 - c 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 producing internal solid plastering finishes.

Assessment criteria

The learner will:

- 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 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 produce internal solid plastering finishes to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when:
 - a measuring
 - b marking out
 - c preparing
 - d mixing
 - e applying
 - f finishing
- 7.2 prepare materials and apply internal plasterwork to contractor's working instructions:
 - a one-coat work (finishing plasters)
 - b two-coat work
 - c internal and external angle
 - d reveals, cills and soffits (door and/or windows)
 - e expanded metal lath (EML) strips
- 7.3 describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
 - a prepare backgrounds
 - b install expanded metal lath (EML)
 - c apply and finish one- and two-coat plasterwork to internal solid backgrounds, EML and manufactured board walls and ceilings
 - d form internal and external angles, reveals and expansion joints
 - e mix plaster
 - f work at height
 - g use hand tools, power tools and equipment

- 7.4 safely use and store:
 - a hand tools
 - b portable power tools
 - c ancillary equipment
- 7.5 state the needs of other occupations and how to communicate within a team when producing internal solid plastering finishes
- 7.6 describe how to maintain the tools and equipment used when producing internal solid plastering finishes.

Unit 674

Producing internal solid plastering finishes in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

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

Unit 689

Repairing and maintaining masonry structures in the workplace

Level:	3
Credit value:	220
GLH:	73
Relationship to NOS:	This unit is linked to the NOS COSVR50 Repair and maintain masonry structures
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials, components and equipment repairing and maintaining existing brick and/or block and/or structures of local materials and styles

Learning outcome

The learner will:

1. interpret the given information relating to the work and resources when repairing and maintaining masonry structures.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f 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 risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f manufactures' information
 - g regulations governing buildings.
-

Learning outcome

The learner will:

2. know how to comply with relevant legislation and official guidance when repairing and maintaining masonry structures.

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
 - g 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
 - 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 repairing and maintaining masonry structures.
-

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment and access equipment safely to carry out the activity in accordance with current legislation and organisational requirements when repairing and maintaining masonry structures
- 3.2 comply with information relating to specific risks to health when repairing and maintaining masonry structures
- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to repairing and maintaining masonry 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)
 - 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
 - b spillages
 - c injuries
 - d other task-related hazards.

Learning outcome

The learner will:

4. select the required quantity and quality of resources for the methods of work to repair and maintain masonry structures.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a materials
 - b components and fixings
 - c tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a bricks
 - b blocks
 - c natural stones
 - d mortars
 - e sand
 - f lime
 - g additives
 - h frames

- i insulation
 - j damp-proof barriers
 - k lintels
 - l fixings and ties
 - m hand and/or powered tools and equipment
- 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported
 - 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
 - 4.5 describe any potential hazards associated with the resources and methods of work
 - 4.6 describe how to calculate quantity, length, area and wastage associated with the method/procedure to repair and maintain masonry structures.
-

Learning outcome

The learner will:

5. minimise the risk of damage to the work and surrounding area when repairing and maintaining masonry 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 minimise damage and maintain a clean work space
 - 5.3 dispose of waste in accordance with current legislation
 - 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - 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 repairing and maintaining masonry 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 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 repair and maintain masonry structures to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when repairing and maintaining masonry structures:
 - a measuring
 - b marking out
 - c levelling
 - d plumbing
 - e positioning and securing
- 7.2 repair and maintain existing brick, and/or block masonry and/or local style structures to given working instructions for three of the following:
 - a match existing materials
 - b continue existing bonding
 - c match existing quality of structure
 - d form openings
 - e prop existing walls and floors
 - f form internal and external angles
- 7.3 safely use:
 - a materials
 - b hand tools
 - c portable power tools
 - d ancillary equipment
- 7.4 safely store the materials, tools and equipment used when repairing and maintaining masonry structures.

- 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 repair and maintain existing masonry structures in brick, traditional and thin joint blocks or local materials and styles
 - b form joint finishes
 - c form openings
 - d prop existing walls and floors
 - e form internal and external angles
 - f dress surfaces
 - g form finishes
 - h mortar mix ratios (volume, gauge boxes and colour)
 - i work with plant and machinery
 - j use hand tools, power tools and equipment
 - k work at height
 - l use access equipment
- 7.6 describe the needs of other occupations and how to effectively communicate within a team when repairing and maintaining masonry structures
- 7.7 describe how to maintain the tools and equipment used when repairing and maintaining masonry structures.

Unit 689

Repairing and maintaining masonry structures in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

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

Unit 700

Setting out masonry structures in the workplace

Level:	2
TQT:	220
GLH:	73
Relationship to NOS:	This unit is linked to the NOS COSVR41 Set out masonry structures
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials, components and equipment setting out brickwork and blockwork and/or structures of local materials and styles

Learning outcome

The learner will:

1. interpret the given information relating to the work and resources when setting out masonry structures.

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f 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 risk assessments
 - d method statements
 - e schedules
 - f manufacturers' information
 - g regulations governing buildings
-

Learning outcome

The learner will:

2. know how to comply with relevant legislation and official guidance when setting out masonry structures.

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
 - g 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
 - 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 masonry structures.

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 setting out masonry structures
- 3.2 comply with information relating to specific risks to health when setting out masonry structures
- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to setting out masonry 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)
 - 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
 - b spillages
 - c injuries
 - d other task-related hazards.

Learning outcome

The learner will:

4. select the required quantity and quality of resources for the methods of work to set out masonry structures.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a hand tools
 - b materials
 - c components and fixings
 - d setting out equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a levels
 - b lines
 - c profiles
 - d tape measures
 - e pegs
 - f squares and fixings
 - g hand tools and setting out 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 distances, length, levels and diagonals, quantity and area associated with the method/procedure to set out masonry structures.
-

Learning outcome

The learner will:

5. minimise the risk of damage to the work and surrounding area when setting out masonry 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 minimise damage and maintain a clean work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - 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 setting out masonry 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 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 masonry structures to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when setting out masonry structures:
 - a measuring
 - b marking out
 - c levelling
 - d plumbing
 - e positioning and securing
- 7.2 set out regular shaped structures to given working instructions in one of the following:
 - a brick
 - b block
 - c local materials
- 7.3 safely use:
 - a materials
 - b hand tools
 - c setting out equipment
- 7.4 safely store the materials, tools and equipment used when setting out masonry structures
- 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 set out brick, traditional and thin joint blocks and structures of local materials on level and sloping ground
 - b construct corner profiles
 - c plumb from ranging lines
 - d transfer levels (spirit level, straight-edge, water levels and laser level)
 - e use hand tools and setting out equipment
- 7.6 describe the needs of other occupations and how to effectively communicate within a team when setting out masonry structures
- 7.7 describe how to maintain the tools and equipment used when setting out masonry structures.

Unit 700

Setting out masonry structures in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

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

Unit 834

Placing and finishing non-specialist concrete in the workplace

Level:	2
TQT:	210
GLH:	70
Relationship to NOS:	This unit is linked to the NOS COSVR45 Place and finish non-specialist concrete
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials, components and equipment preparing, laying, compacting and finishing concrete slabs, footings or bases.

Learning outcome

The learner will:

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

Assessment criteria

The learner can:

- 1.1 interpret and extract relevant information from:
 - a drawings
 - b risk assessments
 - c method statements
 - d schedules
 - e 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 risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f manufacturers' information
 - g current regulations associated with placing and finishing non-specialists concrete.
-

Learning outcome

The learner will:

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

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
 - g 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
- 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 placing and finishing non-specialist concrete.

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 placing and finishing non-specialist concrete
- 3.2 comply with information relating to specific risks to health when placing and finishing non-specialist concrete
- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to placing and finishing non-specialist 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
 - b spillages
 - c injuries
 - d 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 finish non-specialist concrete.

Assessment criteria

The learner can:

- 4.1 select resources associated with own work in relation to:
 - a materials
 - b components and fixings
 - c tools and equipment
- 4.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:
 - a concrete
 - b fabric reinforcement
 - c timber
 - d plywood
 - e proprietary slab edgings and fixings
 - f hand tools and equipment
- 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.5 describe any potential hazards associated with the resources and methods of work

- 4.6 describe how to calculate quantity, length, area and wastage associated with the method/procedure to place and finish non-specialist concrete.
-

Learning outcome

The learner will:

5. minimise the risk of damage to the work and surrounding area when placing and finishing non-specialist 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 minimise damage and maintain a clean work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
- 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 finishing non-specialist 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 finish non-specialist concrete to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when placing and finishing non-specialist concrete:
 - a measuring
 - b marking out
 - c laying
 - d compacting
 - e finishing
 - f positioning
 - g securing
- 7.2 lay and finish concrete to given working instructions for three of the following:
 - a concrete slabs/bases (footing, oversites or paths)
 - b form slab edging
 - c position reinforcement
 - d form surface finish (tamped, floated, brushed and trowelled)
- 7.3 safely use:
 - a materials
 - b hand tools
 - c ancillary equipment
- 7.4 safely store the materials, tools and equipment used when placing and finishing non-specialist concrete
- 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 handle, transport and test concrete
 - b transport, lay, compact, cure and protect concrete with tamped, floated, brushed and trowelled finishes
 - c cure and protect
 - d place fabric reinforcement
 - e concrete mix ratios (volume and gauge boxes)
 - f place concrete into formwork and shuttering
 - g form slab edging
 - h work with plant and machinery
 - i use hand tools and ancillary equipment
- 7.6 describe the needs of other occupations and how to effectively communicate within a team when placing and finishing non-specialist concrete
- 7.7 describe how to maintain the tools and equipment used when placing and finishing non-specialist concrete.

Unit 834

Placing and finishing non-specialists concrete in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

Unit 835

Installing drainage in the workplace

Level:	2
TQT:	190
GLH:	63
Relationship to NOS:	This unit is linked to the NOS COSVR639 Install drainage
Unit aim:	The aim of this unit is to provide the learner with an awareness of: interpreting information adopting safe and healthy working practices selecting materials, components and equipment preparing for, installing and testing new and/or replacement 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 risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f 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 risk assessments
 - c method statements
 - d specifications
 - e schedules
 - f manufacturers' information
 - g regulations governing the installation and construction of drainage systems.

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 and health hazards, 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
 - h 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
- 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 drainage.

Assessment criteria

The learner can:

- 3.1 use health and safety control equipment and access equipment safely to carry out the activity in accordance with current legislation and organisational requirements when installing drainage
- 3.2 comply with information relating to specific risks to health when installing drainage

- 3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to installing drainage, 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
 - b spillages
 - c injuries
 - d other task-related hazards.
-

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:
 - a materials
 - b components and fixings
 - c 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/or powered tools and equipment
- 4.3 describe how the resources should be used correctly and how problems associated with the resources are reported
- 4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources
- 4.5 describe any potential hazards associated with the resources and methods of work
- 4.6 describe how to calculate quantity, length, area and wastage associated with the method/procedure to 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 minimise damage and maintain a clean work space
- 5.3 dispose of waste in accordance with current legislation
- 5.4 describe how to protect work from damage and the purpose of protection in relation to:
 - 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 drainage.

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 drainage to the required specification.

Assessment criteria

The learner can:

- 7.1 demonstrate the following work skills when installing drainage:
 - a measuring
 - b marking out
 - c laying
 - d positioning
 - e fitting
 - f levelling
 - g plumbing
 - h aligning
 - i securing
 - j testing
- 7.2 install and test new and/or replacement, foul and/or surface water drainage for two of the following to given working instructions:
 - a pipework (e.g. clay, concrete, metal, or plastic)
 - b inspection chambers (e.g. brick, concrete, metal or plastic)
 - c surface water systems (e.g. cells, culverts, high capacity, linear, balancing ponds, interceptors, recycling equipment, soak-a-ways, sustainable urban drainage systems)
 - d foul water systems (e.g. cess pools, septic tanks, reed beds, treatment plants)
- 7.3 safely use:
 - a materials
 - b hand tools
 - c portable power tools
 - d ancillary equipment
- 7.4 safely store the materials, tools and equipment used when installing drainage
- 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 excavate trenches and provide trench support
 - b confirm ground conditions, site and excavations are suitable for the drainage installation work
 - c prepare bedding for pipework
 - d determine levels and gradients
 - e identify the differences between surface and foul water drainage
 - f lay, position, level, plumb, align, fit, fix and secure new and replacement drainage systems
 - g construct structures of a drainage system (storm alleviation, culverts, inspection chambers, lateral drains, overflows, sumps, filter drains, sustainable urban drainage systems)

- 7.6 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:
- a assemble pre-cast components (metal, concrete, clay and plastic) of a drainage system structure (inspection chambers, street iron work)
 - b connect and seal new systems to existing systems
 - c conduct smoke, water, ball, air mandrel and close circuit television tests on drainage systems
 - d work with plant and machinery
 - e use hand tools, power tools and equipment
 - f work at height and below ground level
 - g use access equipment
- 7.7 describe the needs of other occupations and how to effectively communicate within a team when installing drainage
- 7.8 describe how to maintain the tools and equipment used when installing drainage.

Unit 835

Installing drainage in the workplace

Supporting information

Assessment guidance

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

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

Workplace evidence of skills cannot be simulated.

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

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 Centres and Training Providers homepage on www.cityandguilds.com.

Centre Manual - Supporting Customer Excellence contains detailed information about the processes which must be followed and requirements which must be met for a centre to achieve 'approved centre' status, or to offer a particular qualification, as well as updates and good practice exemplars for City & Guilds assessment and policy issues.

Specifically, the document includes sections on:

- The centre and qualification approval process
- Assessment, internal quality assurance and examination roles at the centre
- Registration and certification of candidates
- Non-compliance
- Complaints and appeals
- Equal opportunities
- Data protection
- Management systems
- Maintaining records
- Assessment
- Internal quality assurance
- External quality assurance.

Our Quality Assurance Requirements encompasses all of the relevant requirements of key regulatory documents such as:

- SQA Awarding Body Criteria (2007)
- NVQ Code of Practice (2006)

and sets out the criteria that centres should adhere to pre and post centre and qualification approval.

Access to Assessment & Qualifications 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 homepage** section of the City & Guilds website also contains useful information on such things as:

- **Walled Garden:** how to register and certificate candidates on line
- **Events:** dates and information on the latest Centre events
- **Online assessment:** how to register for e-assessments.

Centre Guide – Delivering International Qualifications contains detailed information about the processes which must be followed and requirements which must be met for a centre to achieve 'approved centre' status, or to offer a particular qualification.

Specifically, the document includes sections on:

- The centre and qualification approval process and forms

- Assessment, verification and examination roles at the centre
- Registration and certification of candidates
- Non-compliance
- Complaints and appeals
- Equal opportunities
- Data protection
- Frequently asked questions.

Appendix 3 Useful contacts

UK learners General qualification information	E: learnersupport@cityandguilds.com
International learners General qualification information	E: intcg@cityandguilds.com
Centres Exam entries, Certificates, Registrations/enrolment, Invoices, Missing or late exam materials, Nominal roll reports, Results	E: centresupport@cityandguilds.com
Single subject qualifications Exam entries, Results, Certification, Missing or late exam materials, Incorrect exam papers, Forms request (BB, results entry), Exam date and time change	E: singlesubjects@cityandguilds.com
International awards Results, Entries, Enrolments, Invoices, Missing or late exam materials, Nominal roll reports	E: intops@cityandguilds.com
Walled Garden Re-issue of password or username, Technical problems, Entries, Results, e-assessment, Navigation, User/menu option, Problems	E: walledgarden@cityandguilds.com
Employer Employer solutions, Mapping, Accreditation, Development Skills, Consultancy	E: business@cityandguilds.com
Publications Logbooks, Centre documents, Forms, Free literature	F: +44 (0)20 7294 2413

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