Level 2 Diploma in Plastering (6708)

August 2017 Version 1.8





Qualification at a glance

Subject area	Construction
City & Guilds number	6708
Age group approved	16-18, 19+
Entry requirements	None
Assessment	Multiple choice/assignment
Support materials	Centre handbook
	Assessor guidance
	Task manual
Registration and certification	Consult the Walled Garden/Online Catalogue for last dates

Title and level	GLH	TQT	City & Guilds number	Accreditation number
Level 2 Diploma in Plastering	521	530	6708-23	600/8051/6
Level 2 Extended Diploma in Plastering	858	880	6708-50	600/9233/6

Version and date	Change detail	Section
1.1 July 2013	Amended the third bullet point under Centre staffing	Centre requirements under Introduction
1.2 July 2013	Glossary of terms added	Units
1.4 July 2014	Centre staffing amended	Centre requirements
1.5 October 2014	Amended UAN for unit 122	Introduction under Structure
1.6 October 2014	Updated Test specification for unit 226. 2 questions have been removed and timing has been adjusted	Assessment
1.7 December 2015	Updated range for LO 1, 3 and 4 in unit 201	Units
1.8 August 2017	Added TQT details	Qualification at a Glance, Structure
	Deleted QCF	Appendix 1





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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?	It is for candidates who work or want to work as a Plasterer in the construction sector.		
What does the qualification cover?	It allows candidates to learn, develop and practise the skills required for employment and/or career progression in Plastering.		
	It covers the following skills:		
	 Applying plastering materials to interiors 		
	• Fixing dry lining and plasterboards to interiors		
	 Laying sand and cement screeds 		
	 Applying plastering materials to external backgrounds 		
	 Producing reverse moulds for fibrous work 		
	Casting and fixing for fibrous plasterwork		
Is the qualification part of a framework or initiative?	The qualification forms the technical certificate for the Construction Building Apprenticeship Framework.		
What opportunities for progression are there?	It allows candidates to progress into employment or to the following City & Guilds qualifications: • Level 3 Diploma in Plastering		

Structure

To achieve the Level 2 Diploma in Plastering (6708-23), learners must achieve 53 credits, 34 from the mandatory units and 19 credits from optional group A or from optional group B.

Unit accreditation number	City & Guilds unit number	Unit title	Credit value	GLH
Mandatory				
A/504/6719	Unit 201/601	Health, safety and welfare in construction	7	70
Y/504/6999	Unit 202/602	Principles of building construction, information and communication	6	55
Y/504/6954	Unit 221	Apply plastering materials to interiors	12	120
R/504/6953	Unit 222	Fix dry lining and plasterboards to interiors	9	90
Optional group	Α			
M/505/3487	Unit 223	Laying sand and cement screeds	9	88
T/505/3488	Unit 224	Applying plastering materials to external backgrounds	10	98
Optional group	B			
H/504/6956	Unit 225	Produce reverse moulds for fibrous work	9	90
K/504/6957	Unit 226	Casting and fixing fibrous plasterwork	10	100

To achieve the Level 2 Extended Diploma in Plastering (6708-50), learners must achieve 88 credits. 69 credits from the mandatory units and 19 credits from optional group A or from optional group B.

Unit accreditation number	City & Guilds unit number	Unit title	Credit value	GLH
Mandatory				
A/504/6722	Unit 101/501	Principles of building construction, information and communication	6	52
H/504/6942	Unit 121	Prepare background surfaces and mix plastering materials	3	30
J/505/2894	Unit 122	Applying scratch coats to internal backgrounds	6	60
M/504/6944	Unit 123	Fixing sheet materials	6	60
A/504/6946	Unit 124	Applying floating coats to wall	7	68
F/504/6947	Unit 125	Applying setting coats to wall	7	67
A/504/6719	Unit 201/601	Health, safety and welfare in construction	7	70
Y/504/6999	Unit 202/602	Principles of building construction, information and communication	6	55
Y/504/6954	Unit 221	Apply plastering materials to interiors	12	120
R/504/6953	Unit 222	Fix dry lining and plasterboards to interiors	9	90

Optional group A

M/505/3487	Unit 223	Laying sand and cement screeds	9	88
T/505/3488	Unit 224	Applying plastering materials to external backgrounds	10	98
Optional group	э В			
H/504/6956	Unit 225	Produce reverse moulds for fibrous work	9	90
K/504/6957	Unit 226	Casting and fixing fibrous plasterwork	10	100

Please Note the Extended Diploma is for learners starting an Apprenticeship at Level 2.

Information for the level 1 units can be found in the Level 1 Plastering handbook.

Total Qualification Time

Total Qualification Time (TQT) is the total amount of time, in hours, expected to be spent by a Learner to achieve a qualification. It includes both guided learning hours (which are listed separately) and hours spent in preparation, study and assessment.

Title and level	GLH	TQT	
Level 2 Diploma in Plastering	521	530	
Level 2 Extended Diploma in Plastering	858	880	



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

Physical resources and site agreements

Centres will have well equipped workshops with a comprehensive range of hand and portable power tools that meet current industry standards. All powered equipment should be well maintained and PAT certified. Centres will have special designated areas within their Plastering workshop (cubicles or project areas) allowing candidates to practise the requirements of the units and carry out the Practical Assignments.

Centre staffing

All staff who assess (tutor/deliver) these qualifications must:

- have recent relevant experience in the specific area they will be teaching;
- be technically competent in the area for which they are delivering training and/or have experience of providing training;
- have a CV available demonstrating relevant experience and any qualifications held.

All staff who quality assure these qualifications must:

- have a good working knowledge and experience within the construction industry;
- have an established strategy and documentary audit trail of internal quality assurance;
- have a good working knowledge of quality assurance procedures;
- have a CV available demonstrating relevant experience and any qualifications held.

While the Assessor/Verifier (A/V) units/TAQA are valued as qualifications for centre staff, they are not currently a requirement for these qualifications. However, we encourage trainers and assessors to qualify to the current TAQA standard.

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.

Candidate entry requirements

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

Age restrictions

City & Guilds cannot accept any registrations for candidates under 16s.



3 Delivering the qualification

Initial assessment and induction

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

- if the learner has any specific training needs,
- support and guidance they may need when working towards their qualification
- any units they have already completed, or credit they have accumulated which is relevant to the qualification
- the appropriate type and level of qualification.

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	
Assessor guidance	www.cityandguilds.com	
Task manual	www.cityandguilds.com	
Qualification approval form	www.cityandguilds.com/construction	
SmartScreen	www.smartscreen.co.uk	



4 Assessment

Title	Assessment method	Where to obtain assessment materials
Health, safety and welfare in construction	City & Guilds e-volve multiple choice test or on demand externally marked paper. The test covers all of the knowledge in the unit.	Examinations provided e-volve or question papers ordered via Walled Garden.
Principles of building construction, information and communicatio n	City & Guilds e-volve multiple choice test or on demand externally marked paper. The test covers all of the knowledge in the unit.	Examinations provided e-volve or question papers ordered via Walled Garden.
Apply plastering materials to interiors	Multiple choice question paper, covering knowledge outcomes. Practical assignment, covering performance outcomes. Both assessments are set by City & Guilds, delivered and marked by the tutor/assessor, and will be externally verified by City & Guilds to make sure they are properly	www.cityandguilds.com
	Health, safety and welfare in construction Principles of building construction, information and communication Apply plastering materials to	Health, safety and welfare in construction Principles of building construction, information and communicatio n Apply plastering materials to interiors Practical assignment, covering performance outcomes. Both assessments are set by City & Guilds e-volve multiple choice dest or on demand externally marked paper. The test covers all of the knowledge in the unit. Multiple choice question paper, covering knowledge outcomes. Practical assignment, covering performance outcomes. Both assessments are set by City & Guilds, delivered and marked by the tutor/assessor, and will be externally verified by City & Guilds to make sure

Unit	Title	Assessment method	Where to obtain assessment materials
222	Fix dry lining and plasterboards to interiors	Multiple choice question paper, covering knowledge outcomes. Practical assignment,	www.cityandguilds. com
		covering performance outcomes.	
		Both assessments are set by City & Guilds, delivered and marked by the tutor/assessor, and will be externally verified by City & Guilds to make sure they are properly carried out.	
223	Laying sand and cement screeds	Multiple choice question paper, covering knowledge outcomes.	www.cityandguilds. com
		Practical assignment, covering performance outcomes.	
		Both assessments are set by City & Guilds, delivered and marked by the tutor/assessor, and will be externally verified by City & Guilds to make sure they are properly carried out.	

Unit	Title	Assessment method	Where to obtain assessment materials
224	Applying plastering materials to external backgrounds	Multiple choice question paper, covering knowledge outcomes. Practical assignment, covering performance outcomes. Both assessments are set by City & Guilds, delivered and marked by the tutor/assessor, and will be externally verified by City & Guilds to make sure they are properly carried out.	www.cityandguilds.com
225	Produce reverse moulds for fibrous work	Multiple choice question paper, covering knowledge outcomes. Practical assignment, covering performance outcomes. Both assessments are set by City & Guilds, delivered and marked by the tutor/assessor, and will be externally verified by City & Guilds to make sure they are properly carried out.	www.cityandguilds.

Unit	Title	Assessment method	Where to obtain assessment materials
226	Casting and fixing fibrous plasterwork	Multiple choice question paper, covering knowledge outcomes.	www.cityandguilds. com
		Practical assignment, covering performance outcomes.	
		Both assessments are set by City & Guilds, delivered and marked by the tutor/assessor, and will be externally verified by City & Guilds to make sure they are properly carried out.	

Test specifications

The way the knowledge is covered by each test is laid out in the tables below:

Test 1: Unit 201/601 Health, safety and welfare in construction Duration: 1 hour

Unit	Outcome	Number of questions	%
201/601	1 Know the health and safety regulations, roles and responsibilities	7	17.5
	2 Know accident and emergency reporting procedures and documentation	5	12.5
	3 Know how to identify hazards in the workplace	7	17.5
	4 Know about health and welfare in the workplace	3	7.5
	5 Know how to handle materials and equipment safely	2	5
	6 Know about access equipment and working at heights	3	7.5
	7 Know how to work with electrical equipment in the workplace	4	10
	8 Know how to use personal protective equipment (PPE)	5	12.5
	9 Know the cause of fire and fire emergency procedures	4	10
	Total	40	100

Test 2: Unit 202/602 Principles of building construction,

information and communication

Duration: 80 minutes

Unit	Outcome	Number of questions	%
202/602	1 Understand how to select types of building information	5	12.5
	2 Know about environmental considerations in relation to construction	5	12.5
	3 Understand the construction of foundations	7	17.5

	Understand construction of internal external walls	and	9		22.5
51	Know about construction of floors		4		10
61	Know about construction of roofs		3		7.5
	Understand how to communicate in Workplace	the	7		17.5
		Total		40	100

Test 3: Unit 221 Apply plastering materials to interiors

Duration: 30 minutes

Unit	Outcome	Number of questions	%
221	1 Understand how to interpret information for interior work	6	30
	3 Understand how to select and prepare materials for interior work	6	30
	5 Understand how to apply one, two and three-coat plastering to interior backgrounds	8	40
		20	100

Test 4: Unit 222 Fix dry lining and plasterboards to interiors

Duration: 25 minutes

Unit	Outcome	Number of questions	%
222	1 Understand how to interpret information for fixing dry lining and plasterboards	2	13
	3 Understand how to select materials and components for fixing dry lining and plasterboards	9	56
	5 Understand how to fix dry lining and plasterboards	5	31
		16	100

Test 5: Unit 223 Laying sand and cement screeds

Duration: 25 minutes

Unit	Outcome	Number of questions	%
223	1 Understand how to interpret information	2	13
	for laying sand and cement screeds		

3 Know how to select materi components for laying sand screeds		5	31
5 Understand how to lay san screeds	d and cement	9	56
	Total	16	100

Test 6: Unit 224 Applying plastering materials to external

backgrounds

Duration: 35 minutes

Unit	Outcome	Number of questions	%
224	1 Understand how to interpret information for external work	2	10
	3 Understand how to select materials, tools and equipment for external work	10	45
	5 Understand how to apply render to external backgrounds	10	45
•	Total	22	100

Test 7: Unit 225 Produce reverse moulds for fibrous work

Duration: 25 minutes

Unit	Outcome	Number of questions	%
225	1 Understand how to interpret information for producing reverse moulds	2	13
	3 Know how to select material, components and equipment for producing reverse moulds	6	40
	5 Know how to produce reverse moulds	7	47
	Total	15	100

Test 8: Unit 226 Casting and fixing fibrous plasterwork

Duration: 35 minutes

Unit	Outcome	Number of questions	%
226	1 Understand how to interpret information	2	9
	to cast and fix fibrous plasterwork		

3 Know how to select material, components and equipment to cast and fix fibrous plasterwork	4	18
5 Understand how to cast fibrous plasterwork	8	36.5
7 Understand how to fix and finish fibrous plasterwork	8	36.5
Total	22	100

5 Units



Structure of units

These units each have the following:

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

Range explained:

Range gives further scope on what areas within assessment criteria must be covered. The range in a unit **must** be taught to learners and parts of the range will be assessed.

Glossary of terms

The following key words and terms are used in the units.

Term	Definition
Accelerator	Material added to a mix to speed up the setting time, useful in winter, example - frostproofer.
Ashlar	Marking out of false or imitation stonework in newly applied render
Bellcast	Formed with or without beads, externally to divert rain away from openings or bases of walls
Cold pour	Flexible moulding compound that needs a catalys to make it set, used in fibrous
Crazing	Hair line cracks on newly plastered and rendered surfaces
Direct bond	Fixing of plasterboards or beads with dabs of plaster
Dry lining	Direct bond or mechanical fixing of plasterboards to walls and ceilings and the subsequent making good of joints, angles and fixing holes, boards are not plastered onto, instead they are treated with a sealer prior to decoration
Firstings	The first coat of casting plaster applied onto a cast

Freehand method	A system of work utilised by experienced plasterers to quickly and accurately apply a floating coat straight and plumb
Gaul	A blemish in a setting coat
Grinning	Background joints or materials showing through surface of plaster, caused by different suction rates
Laitance	Residue found on surface of concrete
PVA (Polyvinyl Acetate)	A bonding agent
PVC (Polyvinyl Chloride)	Hot melt rubber compound used for moulds in casting
Retarder	Added to a mix to slow setting and allow more working time
Reverse rule method	A way of forming a hard angle or arris with plastering materials without the use of beads
Screed	Screed- band of material used as a guide for ruling off, as in broad screed Floor screed- a layer of sand and cement applied over concrete substrates to provide a finished floor ready to receive coverings
Scrim	Self adhesive tape or jute hessian cloth used to prevent cracking when plastering onto plasterboard
Seasoning	Sealing of moulds
Seconds	Retarded 2 nd mix of casting plaster applied over the firstings
Shelling off	Plaster coming away from background caused by adhesion failure
Thin/skim/ setting coat	Finish plaster applied 2-3mm thick to provide a smooth finish ready for decoration
Wads 	Square pieces of scrim cloth soaked in casting plaster used in making and fixing of casts and reinforcing joints.
Wall plate	Length of timber at the top of a wall to support the roof
Accelerator	Material added to a mix to speed up the setting time, useful in winter, example - frostproofer.

Unit 201/601 Health, safety and welfare in construction

UAN:	A/504/6719
Level:	2
Credit value:	7
GLH:	70
Endorsement by a sector or regulatory body:	This unit is endorsed by Construction Skills, the Sector Skills Council for the construction industry.
Aim:	The aim of this unit is to provide the learner with the knowledge to carry out safe working practices in construction, in relation to sourcing relevant safety information and using the relevant safety procedures at work

Learning outcome

The learner will:

1. know the health and safety regulations, roles and responsibilities

Assessment criteria

The learner can:

- 1.1 identify health and safety legislation relevant to and used in the construction environment
- 1.2 state employer and employee responsibilities under the Health and Safety at Work Act (HASWA)
- 1.3 state **roles and responsibilities** of the Health and Safety Executive (HSE)
- 1.4 identify **organisations** providing relevant health and safety information
- 1.5 state the importance of holding on-site safety inductions and toolbox talks.

Range

Health and safety legislation

Health and Safety at Work Act, Reporting Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR), Control of Substances Hazardous to Health (COSHH), Construction, Design and Management (CDM) regulations, Provision and Use of Work Equipment Regulations (PUWER), manual handling operations Regulations, Personal Protective Equipment (PPE) at Work

Regulations, Work at Height Regulations, Control of Noise at Work Regulations, Control of Vibration at Work Regulations, Electricity at Work Regulations, Lifting operations and Lifting Equipment Regulations (LOLER)

Employer responsibilities

Safe working environment, adequate staff training, health and safety information, site inductions, toolbox talks, risk assessment, supervision, PPE, reporting hazards, accidents and near misses, sections 2 to 9 of Health and Safety at Work Act, CDM reg's, construction phase plans, welfare, display public liability Insurance and health and safety law poster.

Employee responsibilities

Working safely, working in partnership with the employer, reporting hazards, accidents and near misses, following organisational procedures as per Sections 2 to 9 of Health and Safety at Work Act.

Roles and responsibilities:

Enforcement (including fees for intervention), legislation and advice, inspection, investigation eg site investigations.

Organisations

Health and Safety Executive (HSE) website, Institute of Occupational Safety and Health, British Safety Council, 'manufacturer', ROSPA.

Learning outcome

The learner will:

2. know accident and emergency reporting procedures and documentation

Assessment criteria

The learner can:

- 2.1 state legislation used for reporting accidents
- 2.2 state major **types of emergencies** that could occur in the workplace
- 2.3 identify reportable injuries, diseases and dangerous occurrences as per RIDDOR
- 2.4 state main types of **records** used in the event of an accident, emergency and near miss and reasons for reporting them
- 2.5 identify authorised personnel involved in dealing with accident and emergency situations
- 2.6 state actions to take when discovering an accident.

Range

Types of emergencies

Fires, security incidents, gas leaks.

Records:

Accident book, first aid records, organisational records and documentation.

Authorised personnel

First aiders, supervisors/managers, health and safety executive, emergency services, safety officer.

Actions

Area made safe, call for help, emergency services.

Learning outcome

The learner will:

3. know how to identify hazards in the workplace

Assessment criteria

The learner can:

- 3.1 state the importance of good housekeeping
- 3.2 state reasons for risk assessments and method statements
- 3.3 identify types of hazards in the workplace
- 3.4 state the importance of the correct storage of combustibles and chemicals on site
- 3.5 identify different signs and safety notices used in the workplace.

Range

Good housekeeping:

Cleanliness, tidiness, use of skips and chutes, segregation of materials, clear access to fire escapes, clear access to fire extinguishers.

Types of hazards:

Fires, slips, trips and falls, hazardous substances (relating to inhalation, absorption, exposure, ingestion, cross-contamination), electrical, asbestos, manual handling, plant and vehicle movement, adverse weather.

Signs and safety notices:

Prohibition, mandatory, warning, safe condition, supplementary.

Learning outcome

The learner will:

4. know about health and welfare in the workplace

Assessment criteria

The learner can:

- 4.1 identify requirements for welfare facilities in the workplace as per Construction Design Management (CDM)
- 4.2 state health effects of noise and **precautions** that can be taken

4.3 state **risks** associated with drugs, alcohol and medication which could affect performance in the workplace.

Range

Precautions

Reducing noise at source, PPE, isolation, exposure time.

Risks

Reduced risk perception, loss of concentration, balance problems, absenteeism and reduced productivity.

Learning outcome

The learner will:

5. know how to handle materials and equipment safely

Assessment criteria

The learner can:

- 5.1 identify legislation relating to safe handling of materials and equipment
- 5.2 state procedures for safe lifting and manual handling activities in accordance with guidance and legislation
- 5.3 state the importance of using **lifting aids** when handling materials and equipment.

Range

Lifting aids

Wheelbarrow, sack barrow, mechanical lifting aids, pallet truck.

Learning outcome

The learner will:

6. know about access equipment and working at heights

Assessment criteria

The learner can:

- 6.1 identify legislation relating to working at heights
- 6.2 identify types of access equipment
- 6.3 state safe methods of use for access equipment
- 6.4 identify dangers of working at height.

Range

Access equipment:

Stepladders, ladders (pole, extension), trestles, hop-ups, proprietary scaffolding, podium, stilts

Safe methods

Regular inspection, check for broken, damaged or missing components,

responsible use, consideration of adverse weather conditions, good housekeeping

Dangers

Falling tools, falling equipment, falling materials, persons falling from height (injuries to themselves and others).

Learning outcome

The learner will:

7. know how to work with electrical equipment in the workplace

Assessment criteria

The learner can:

- 7.1 state **precautions** to take to avoid risks to self and others when working with electrical equipment
- 7.2 state dangers of using electrical equipment
- 7.3 identify **voltages** and voltage colour coding that are used in the workplace
- 7.4 state **methods** of storing electrical equipment.

Range

Precautions

Check leads, check plugs, use of cable hangers, check tools and equipment, current valid PAT certificate

Dangers:

Burns, electrocution, fire.

Voltages

Battery powered, 110/115 volts, 230/240 volts and 415 volts.

Methods

Components present, equipment cleaned, checked for damage, stored in a clean and secure location.

Learning outcome

The learner will:

8. know how to use Personal Protective Equipment (PPE)

Assessment criteria

The learner can:

- 8.1 state the legislation governing use of Personal Protective Equipment (PPE)
- 8.2 state types of PPE used in the workplace
- 8.3 state the importance of PPE
- 8.4 state why it is important to store, maintain and use PPE correctly
- 8.5 state the importance of checking and reporting damaged PPE.

Range

PPE:

Head protection, eye protection, ear protection, face/dust masks, breathing apparatus, high visibility clothing, safety footwear,

gloves, sun protection, barrier cream, water proofs, knee pads, overalls/disposable clothing

Learning outcome

The learner will:

9. know the cause of fire and fire emergency procedures

Assessment criteria

The learner can:

- 9.1 state **elements** essential to creating a fire
- 9.2 identify methods of fire prevention
- 9.3 state actions to be taken on discovering a fire
- 9.4 state types of fire extinguishers and their uses.

Range

Elements

Oxygen, fuel, heat.

Types of fire extinguishers:

Water, foam, CO2, dry powder.

Unit 202/602 Principles of building construction, information and communication

UAN:	Y/504/6999	
Level:	2	
Credit value:	6	
GLH:	55	
Endorsement by a sector or regulatory body:	This unit is endorsed by Construction Skills, the Sector Skills Council for the construction industry.	
Aim:	The aim of this unit is to provide the learner with the knowledge of building methods and construction technology in relation to: • understanding a range of building materials used within the construction industry and their suitability to the construction of modern buildings. • source relevant information and apply it to relevant tasks • calculating the resources from required drawings and specifications.	

Learning outcome

The learner will:

10. understand how to select types of building information.

Assessment criteria

The learner can:

- 10.1 interpret information sources used in construction
- 10.2 interpret scale, **symbols and hatchings** on a working drawing
- 10.3 explain the purpose of benchmarks used in construction.

Range

Information sources

Drawings, schedules, specifications, programme of work, organisational chart, method statements, risk assessment,

manufacturers' technical information, bill of quantities, order requisitions, delivery notes, variation orders, permits to work, signs and notices.

Symbols

WC, sink, bath, door, window

Hatchings

Brickwork, timber (wrot and unwrot), blockwork, concrete, hardcore, sub soil, insulation, damp proof course (DPC), damp proof membrane (DPM)

Benchmarks

Site datums, temporary bench marks (TBM), ordnance bench marks (OBM).

Learning outcome

The learner will:

11. know about environmental considerations in relation to construction.

Assessment criteria

The learner can:

- 11.1 describe thermally insulated materials
- 11.2 describe methods of making buildings water efficient
- 11.3 describe methods of making buildings energy efficient
- 11.4 state environmental-friendly building materials
- 11.5 state procedures for waste management.

Range

Materials

Polyisocyanurate (PIR), Expanded Polystyrene (EP), fibre glass, mineral wool, double glazed units, multi-foil insulation.

Methods (AC2.2)

Efficient sanitary ware, water harvesting.

Methods (AC2.3)

Low energy lighting, automatic movement sensors, solar panels, wind turbines, heat source, biomass heating.

Building materials:

Locally sourced, managed timber (FSC), lime, sheep wool, recycled materials, straw.

Procedures

Segregation and recycling of waste, safe disposal of hazardous materials, Local Exhaust Ventilation (LEV).

Learning outcome

The learner will:

12. understand the construction of foundations.

Assessment criteria

The learner can:

- 12.1 describe factors to be considered when selecting foundations
- 12.2 describe **materials** and mix-ratios used in concrete foundations
- 12.3 explain how to set out foundations
- 12.4 explain factors to consider when excavating foundations
- 12.5 describe methods of transferring datums
- 12.6 calculate the volume of concrete used in pile foundation.

Range

Factors (AC3.1)

Ground conditions (subsoil), strength, types of building.

Foundations

Strip, raft, pile, pad.

Materials

Course aggregate, fine aggregate, cement, water, steel reinforcement, sulphate-resisting cement, ordinary portland cement, frost proofing, accelerators, retardants.

Set out

3:4:5 method, diagonals, profiles, builder's square.

Factors (AC3.4)

Underground services, proximity to neighbouring buildings, tree roots, ground conditions.

Methods

Optical/laser level, straight edge and spirit level

Learning outcome

The learner will:

13. understand construction of internal and external walls.

Assessment criteria

The learner can:

- 13.1 describe wall components
- 13.2 explain the importance of a Damp Proof Course (DPC)
- 13.3 calculate the area of a gable
- 13.4 identify additives used in mortar
- 13.5 identify different types of bonding
- 13.6 describe the differences between load-bearing and nonload-bearing internal walls
- 13.7 calculate the volume of paint required to cover a wall area.

Range

Wall components

Brick, block, insulation, Damp Proof Course (DPC), lintels, wall ties, airbrick and liner, cavity closures, stud partition, light density blocks, plasterboard, plaster.

Additives

Retardant, accelerant, frost inhibitor, cement dyes, plasticiser.

Bonding

Stretcher, English, Flemish.

Learning outcome

The learner will:

14. know about construction of floors.

Assessment criteria

The learner can:

- 14.1 describe floor components
- 14.2 calculate the linear quantity of floor boarding to cover an irregular shaped area
- 14.3 calculate additional quantities of wastage using percentage.

Range

Floor components

Hard core, blinding sand, Damp Proof Membrane (DPM), insulation, oversite concrete, block and beam, pre-cast floor panels, screed (dry, self-levelling) sleeper walls, wall plates, DPC, joists, joist hangers, floor covering.

Learning outcome

The learner will:

15. know about construction of roofs.

Assessment criteria

The learner can:

- 15.1 describe types of roofs
- 15.2 describe roof components.

Range

Types

Gable-ended, flat, hipped, lean-to.

Roof components

Purlins, rafters, truss rafters, ridge, batten/lathe, fascia, soffit, barges, valleys, wall plate, flashings, felt, slate/tile, insulation, joists, wall plate straps.

Learning outcome

The learner will:

16. understand how to communicate in the workplace.

Assessment criteria

The learner can:

- 16.1 describe job roles within building teams
- 16.2 explain **key personnel** involved in day to day communication
- 16.3 state information needed when requesting materials
- 16.4 identify methods of communication used to relay information to colleagues and others
- 16.5 describe advantages and disadvantages of methods of communication
- 16.6 state **occasions** when clear communication is vital in the workplace
- 16.7 explain **benefits** of positive communication with colleagues and others.

Range

Job roles

Professional, technician, trade, general operative.

Key personnel

Site manager, supervisors, fellow operatives.

Information

Dimensions, quantities, type, when and where required, contact name and details.

Methods of communication (AC7.4)

Letters, emails, telephone, memos, verbal, posters, signs, meetings, radio, text messages

Methods of communication (AC7.5)

Written, verbal

Occasions

Changes to risk assessments, work restrictions, changes to method statement, permits to work, changes to legislation.

Benefits

Improved motivation, avoid conflict, complying with equality and diversity, meeting deadlines.

Unit 221 Apply plastering materials to interiors

UAN:	Y/504/6954
Level:	2
Credit value:	12
GLH:	120
Endorsement by a sector or regulatory body:	Endorsed by Construction Skills.
Aim:	The purpose of this unit is to develop a plasterer's techniques and skills for applying a variety of plastering materials to interior surfaces.

Learning outcome

The learner will:

1. understand how to interpret information for interior work.

Assessment criteria

The learner can:

- 1.1 explain the purpose of specifications
- 1.2 describe different types of drawings
- 1.3 explain the purpose of schedules for materials
- 1.4 calculate quantities of materials.

Range

Types

Block plan, assembly drawing, site plan, detailed drawing.

Calculate

Areas, volume.

Learning outcome

The learner will:

2. be able to interpret information from drawings and specifications relating to interior work.

Assessment criteria

The learner can:

- 2.1 check information relating to drawings and specifications
- 2.2 comply with specifications and schedules for interior work
- 2.3 interpret manufacturers' information relating to interior plasterwork
- 2.4 report discrepancies to authorised personnel.

Range

Drawings and specifications

Manufacturing specification, data sheets

Specifications and schedules

Drawings, verbal Instruction.

Manufacturers' information

Manufacturers' specification, data sheets.

Learning outcome

The learner will:

3. understand how to select and prepare materials for interior work.

Assessment criteria

The learner can:

- 3.1 explain the effects of using out-of-date plasters
- 3.2 describe the importance of storing plasters
- 3.3 state the **importance** of ensuring the compatibility of backgrounds and finish plasters
- 3.4 describe the limitations of different types of materials.

Range

Effects

Adhesion, strength, flash setting.

Importance (AC3.2)

Date order for rotation of stock, dry/undercover, safe height, stored flat.

Importance (AC3.3)

Drying/setting times, adhesion, corrosion.

Materials

- gypsum plaster
- sand
- cement
- lime
- plasticisers

Learning outcome

The learner will:

4. be able to select and prepare equipment and materials for interior work.

Assessment criteria

The learner can:

- 4.1 select materials for interior work
- 4.2 comply with specifications for interior work
- 4.3 select hand and power tools
- 4.4 check for correct access equipment for work.

Range

Materials

Sand, cement, lightweight plasters, plaster finish, thin coat and floating beads, fixings, additives, bonding agents, scrim.

Hand and power tools

Hawk, plasterers trowel, brushes, float, gauging trowel, small tool, featheredge rule, Darby, spirit levels, plumb bob, devil float, podger/plasterers wheel, whisk/paddle, mixers, snips, finishing blade.

Learning outcome

The learner will:

5. understand how to apply one, two and three-coat plastering to interior backgrounds.

Assessment criteria

The learner can:

- 5.1 describe the process of preparing background surfaces
- 5.2 list the sequence of operations for mixing plaster materials
- 5.3 describe **methods** of applying one, two and three-coat plastering to interior backgrounds
- 5.4 explain methods of fixing beads and trims
- 5.5 explain why expanded metal lath is fixed to cover wall plates in interior work.

Range

Process

Sheet-up area, clean off background, test suction, control suction, providing key.

Sequence of operations

Designated area, protect the work and surrounding area, correctly mix plasters.

Methods

Fixing expanded metal lath (EML), pricking/dubbing coat, Scratch coat and key first coat, floating coat, broad screed method, plumb and dot), freehand method, setting coat.

Methods of fixing

Galvanised fixings, direct bond with dabs

Learning outcome

The learner will:

6. be able to apply one, two and three-coat plastering to interior backgrounds.

Assessment criteria

The learner can:

- 6.1 **prepare** backgrounds high and low suction
- 6.2 install expanded metal lath (EML) in narrow strips
- 6.3 mix plastering materials
- 6.4 apply and finish one, two and three-coat work to solid and applied backgrounds
- 6.5 form external angles using pre-formed beads and trims
- 6.6 **form** external angles without pre-formed beads and trims (hard angles)
- 6.7 use correct access equipment for work
- 6.8 follow current environmental and relevant health and safety legislation.

Range

Prepare

Clean off, check suction, damp/bonding agent.

Install

Wall plate/timber members, weak points.

Applied backgrounds

To include window reveals and soffits

Form (AC6.5)

Galvanised fixings, clout nails, board screws, adhesive.

Form (AC6.6)

Form hard ariss, straight edge.

Unit 222 Fix dry lining and plasterboards to interiors

UAN:	R/504/6953
Level:	2
Credit value:	9
GLH:	90
Endorsement by a sector or regulatory body:	Endorsed by Construction Skills.
Aim:	The purpose of this unit is to develop a plasterer's techniques and skills for fixing dry lining and plasterboards to interior surfaces.

Learning outcome

The learner will:

1. understand how to interpret information for fixing dry lining and plasterboards.

Assessment criteria

The learner can:

- 1.1 explain the purpose of specifications
- 1.2 describe different types of drawings
- 1.3 explain the purpose of schedules for materials
- 1.4 calculate quantities of materials.

Range

Types

Block plan, assembly drawing, site plan, detailed drawing.

Learning outcome

The learner will:

2. be able to interpret information from drawings and specifications for fixing dry lining and plasterboards.

Assessment criteria

- 2.1 check information relating to drawings and specifications
- 2.2 comply with specifications and schedules

- 2.3 interpret manufacturers' information relating to fixing dry lining and plasterboards
- 2.4 report discrepancies to authorised personnel.

Drawings and specifications

Manufacturing specification, data sheets,

Specifications and schedules

Drawings, verbal instruction.

Manufacturers' information

Manufacturers' specification, data sheets.

Learning outcome

The learner will:

3. understand how to select materials and components for fixing dry lining and plasterboards.

Assessment criteria

The learner can:

- 3.1 explain the different **methods** of fixing dry lining and plasterboards
- 3.2 describe the **importance** of using the correct type and sizes of sheet materials
- 3.3 describe materials for:
 - fixing
 - jointing
 - taping
 - finishing
 - sealing
- 3.4 describe the **benefits** of power and hand tools
- 3.5 explain the reasons for choices of mechanical fixings.

Range

Methods

Nails, screws, direct bond.

Importance

Minimise waste, speed, strength, insulation, acoustic, fire, moisture.

Materials

Screws, adhesive/bonding compound, paper tape, filler, intumescent sealant, mastic.

Benefits

Speed, precision.

Reasons

Reduce movement, strength, speed, type of background.

Learning outcome

The learner will:

4. be able to select materials and components for fixing dry lining and plasterboards.

Assessment criteria

The learner can:

- 4.1 interpret information from specifications and drawings
- 4.2 select materials and components for fixing dry lining and plasterboards
- 4.3 select tools and equipment for fixing dry lining and plasterboards
- 4.4 select correct access equipment for work
- 4.5 report discrepancies to authorised personnel.

Range

Information

Manufacturers' specifications, data sheets, delivery notes.

Materials

Plasterboard, tapered edge, square edge.

Components

Galvanised fixings, beads, dry-wall screws.

Tools and equipment

Hawk, plasterers trowel, brushes, gauging trowel, featheredge rule, box rule, spirit levels, plumb bob, podger/plasterers wheel, whisk/paddle, claw hammer, snips, sponge, spatula, foot lifter, pad saw, knife, rasp, tape measure.

Learning outcome

The learner will:

5. understand how to fix dry lining and plasterboards.

Assessment criteria

The learner can:

- 5.1 describe the process of planning work
- 5.2 explain methods of scrimming and taping joints
- 5.3 describe the purpose of maintaining in-line level and plumb
- 5.4 explain methods of protecting the surrounding environment.

Range

Process

Drawings and specifications, starting point, setting out, in-line fixing staggering joints, product data, centres, taping and finishing joints.

Methods (AC5.2)

- scrimming –self-adhesive scrim
- taping paper.

Methods (AC5.4)

Sheet-up area, fix barriers, apply signage, local exhaust ventilation (LEV).

Learning outcome

The learner will:

6. be able to fix dry lining and plasterboards.

Assessment criteria

- 6.1 apply dry lining using adhesive compounds to vertical backgrounds
- 6.2 fix plasterboards using mechanical fixings to vertical and horizontal backgrounds
- 6.3 form joints by hand or mechanically
- 6.4 form perimeter seal and external angle to boards
- 6.5 protect the surrounding environment
- 6.6 use correct access equipment for work
- 6.7 follow current environmental and relevant health and safety legislation.

Unit 223 Laying sand and cement screeds

UAN:	M/505/3487
Level:	2
Credit value:	9
GLH:	88
Endorsement by a sector or regulatory body:	Endorsed by Construction Skills.
Aim:	The purpose of this unit is to develop a plasterer's techniques and skills for laying sand and cement screeds

Learning outcome

The learner will:

1. understand how to interpret information for laying sand and cement screeds.

Assessment criteria

The learner can:

- 1.1 explain the purpose of specifications
- 1.2 describe different types of drawings
- 1.3 explain the purpose of schedules for materials
- 1.4 calculate quantities of materials.

Range

Types

Block plan, assembly drawing, site plan, detailed drawing.

Calculate

Volume, ratios.

Learning outcome

The learner will:

2. be able to interpret information from drawings and specifications for laying sand and cement screeds.

Assessment criteria

- 2.1 check information relating to drawings and specifications
- 2.2 comply with specifications and schedules

- 2.3 interpret manufacturers' information relating to laying sand and cement screeds
- 2.4 report discrepancies to authorised personnel
- 2.5 follow current environmental and relevant health and safety legislation.

Drawings and specifications

Manufacturing specification, data sheets

Specifications and schedules

Drawings, verbal instruction.

Manufacturers' information

Manufacturer's specification, data sheets.

Learning outcome

The learner will:

3. know how to select materials and components for laying sand and cement screeds.

Assessment criteria

The learner can:

- 3.1 describe components and equipment used for floor screeding
- 3.2 describe types of materials used in floor screeding.

Range

Components and equipment

Spirit level, water level, laser level, shovel, buckets, mixer, trowel, float, damp-proof – liquid/physical, insulating materials.

Types of materials

Semi-dry mix, pre-mix, ready-mix, expansion joints, DPM, Visquene, rigid insulation, blinding, slip layer, self leveling compound

Learning outcome

The learner will:

4. be able to select materials and components to lay sand and cement screeds.

Assessment criteria

- 4.1 interpret information from specifications and drawings
- 4.2 select materials for laying sand and cement screeds
- 4.3 select tools and equipment for laying sand and cement screeds

- 4.4 report discrepancies to authorised personnel
- 4.5 follow current environmental and relevant health and safety legislation.

Information

Manufacturers' specifications, data sheets, delivery notes.

Materials

Aggregates, fibres/binders, cement, bonding agents/adhesives

Tools and equipment

Trowel, float, brushes, gauging trowel, featheredge rule, box rule, spirit levels, laser level, snips, knife.

Learning outcome

The learner will:

5. understand how to lay sand and cement screeds.

Assessment criteria

The learner can:

- 5.1 describe the **preparatory work** for laying sand and cement screeds
- 5.2 describe **methods** of gauging and mixing materials to correct consistency
- 5.3 describe the **effects** of incorrect gauging of screeding materials
- 5.4 identify **methods** of laying battens and screeds to levels and falls
- 5.5 explain the purpose of compacting and finishing screeds
- 5.6 describe the process of curing screeds.

Range

Preparatory work

Cleaning (removing laitance/dust), damping down, grout, bonding agents, providing a mechanical key.

Methods (AC5.2)

Weight, buckets, cement mixer, shovel, the importance of correct ratio.

Effects

Poor strength, poor workability, adhesion, dusting, contamination, poor consistency.

Methods (AC5.4)

Dots, screeds, setting out falls.

Purpose

Strength, density, open and closed face finish.

Process

Time/programming of work, protecting/covering, keeping damp/moisture control.

Learning outcome

The learner will:

6. be able to lay sand and cement screeds.

Assessment criteria

- 6.1 prepare background areas (sub-floors)
- 6.2 set up battens and screeds
- 6.3 set up for levels and falls using water levels and laser levels
- 6.4 correctly gauge and mix the materials to the required consistency
- 6.5 lay and finish floor screeds to levels and falls
- 6.6 maintain tools and equipment
- 6.7 follow current environmental and relevant health and safety legislation.

Unit 224 Applying plastering materials to external backgrounds

UAN:	T/505/3488
Level:	2
Credit value:	10
GLH:	98
Endorsement by a sector or regulatory body:	Endorsed by Construction Skills.
Aim:	The purpose of this unit is to develop a plasterer's techniques and skills for applying a variety of plastering materials to external backgrounds

Learning outcome

The learner will:

1. understand how to interpret information for external work.

Assessment criteria

The learner can:

- 1.1 explain the purpose of specifications
- 1.2 describe different types of drawings
- 1.3 calculate quantities of materials.

Range

Types

Block plan, assembly drawing, site plan, detailed drawing.

Calculate

Areas, volume, linear.

Learning outcome

The learner will:

2. be able to interpret information for external work.

Assessment criteria

- 2.1 check information relating to drawings and specifications
- 2.2 comply with specifications for external work
- 2.3 interpret manufacturers' information relating to external plasterwork

2.4 report discrepancies to authorised personnel.

Range

Drawings and specifications

Manufacturing specification, data sheets

Specifications

Drawings, verbal instruction.

Manufacturers' information

Manufacturers' specification, data sheets.

Learning outcome

The learner will:

3. understand how to select materials, tools and equipment for external work.

Assessment criteria

The learner can:

- 3.1 explain the effects of using out-of-date cement
- 3.2 identify methods of storing cement
- 3.3 state the **importance** of ensuring the compatibility of backgrounds and rendering coat
- 3.4 describe the limitations of different types of materials
- 3.5 describe different types of sand used for external rendering
- 3.6 describe the different types of additives
- 3.7 state different types of trims and beads
- 3.8 identify tools and equipment required for external rendering.

Range

Effects

Breakdown of material, poor strength, lumps, quality of finish, poor binding, adhesion.

Methods

Undercover, off the ground, stock rotation, safe height.

Importance

Drying/setting times, corrosion, cracking, adhesion, preparation.

Materials

- sand needs binder
- cement needs aggregate, shelf life
- hydrated lime not as strong as cement
- plasticisers can weaken material, poor shelf life
- galvanised metal rusting.

Types (AC 3.5)

River sand, pit sand, coarse/sharp sand, silver sand

Additives

Water-proofers, plasticisers, bonding agents, frost-proofers, neutralisers/inhibitors, biocidal wash

Types

Bell cast, render stop, external angle bead, expansion joint bead.

Tools and equipment

Float, plumb rule, featheredge, Darby, scratcher, level, mixer, access equipment, snips.

Learning outcome

The learner will:

4. be able to select and prepare equipment and materials for external work.

Assessment criteria

The learner can:

- 4.1 select materials for external work
- 4.2 comply with specifications for external work
- 4.3 select hand tools
- 4.4 check for suitable access equipment for the work
- 4.5 follow current environmental and relevant health and safety legislation.

Range

Materials

Sand, cement, bell beads, angle beads, stop beads, expansion joint beads, additives, bonding agents, hydrated lime, Ordinary Portland Cement (OPC).

Hand tools

Hawk, trowel, brush, float, plumb rule, featheredge rule, Darby, gauging trowel, scratcher, level, mixer, access equipment, claw hammer, snips.

Access equipment

Scaffold, ladders, hop ups, trestles.

Learning outcome

The learner will:

5. understand how to apply render to external backgrounds.

Assessment criteria

- 5.1 describe the **process** of preparing background surfaces
- 5.2 list the **sequence of operations** for mixing external rendering materials
- 5.3 describe **methods** of applying two-coat rendering to external backgrounds
- 5.4 explain how to fix:
 - bell beads
 - trims
 - EML strips
- 5.5 explain how to form external angles and bells without preformed beads and trims
- 5.6 describe the **importance** of bell casts or render stops
- 5.7 explain the **importance** of compatibility between backgrounds and render to be applied.

Process

Sheet-up area, fix barriers, apply signage, clean off background, test suction, control suction, providing key, bonding agent.

Sequence of operations

Designated area, protect the work and surrounding area, correctly mix renders.

Methods

Scratch coat, floating coat.

Form

Straight edges, battens, nails, featheredge, level.

Importance (AC5.6)

- repel water bell cast
- segregation of work stop bead
- expansion expansion bead
- strengthen angle bead.

Importance (AC5.7)

Adhesion, bond, strength, preparation.

Learning outcome

The learner will:

6. be able to apply two coat rendering to external backgrounds.

Assessment criteria

- 6.1 **prepare backgrounds** high and low suction
- 6.2 mix rendering materials
- 6.3 fix pre-formed bell beads and trims

- 6.4 form external angles without pre-formed beads and trims
- 6.5 apply and finish two coat work to external backgrounds
- 6.6 use correct access equipment for the work
- 6.7 follow current environmental and relevant health and safety legislation.

Prepare backgrounds

Clean off, check suction, damp/bonding agent.

Fix

Galvanised nails, straight edged, level.

EML

Weak points, timber member.

Form external angles

Form hard ariss, battens, straight edge, nails, featheredge, level.

Finish

Plain faced finish, scratch render finish (scraped texture)

Unit 225 Produce reverse moulds for fibrous work

UAN:	H/504/6956
Level:	2
Credit value:	9
GLH:	90
Endorsement by a sector or regulatory body:	Endorsed by Construction Skills.
Aim:	The purpose of this unit is to develop a plasterer's techniques and skills for producing reverse moulds

Learning outcome

The learner will:

1. understand how to interpret information for producing reverse moulds.

Assessment criteria

The learner can:

- 1.1 explain the purpose of specifications
- 1.2 describe different types of drawings
- 1.3 explain the purpose of schedules for materials
- 1.4 calculate quantities of materials.

Range

Types of drawings

Layout, block plan, as-built drawings from squeeze moulds/existing, geometrical setting out of moulding outlines, panel, cornice, beam case, plain-face slab

Calculate

Areas, volume, linear

Learning outcome

The learner will:

2. be able to interpret information for producing reverse moulds.

Assessment criteria

The learner can:

- 2.1 check information relating to drawings and specifications
- 2.2 comply with specifications and schedules
- 2.3 interpret manufacturers' information relating for producing reverse moulds
- 2.4 report discrepancies to authorised personnel
- 2.5 follow current environmental and relevant health and safety legislation.

Range

Drawings and specifications

Manufacturing specification, data sheets

Specifications and schedules

Drawings, verbal instruction.

Manufacturers' information

Manufacturers' specification, data sheets.

Learning outcome

The learner will:

3. know how to select materials, components and equipment for producing reverse moulds.

Assessment criteria

The learner can:

- 3.1 describe **components and equipment** used for producing reverse moulds
- 3.2 describe types of materials used in producing reverse moulds.

Range

Components and equipment

Running moulds - timber, zinc and nails, flexible moulds hot- and cold-pour compounds, timber bearers, french chalk, release agents/grease, benches, plaster boxes, running rules, busks, small tools, gauging trowels, splash brushes, shellac brushes, mixing bowls/vessels, scrapers

Materials

Casting plaster, autoclaved plaster, canvas/laths, plasters, sealants/shellac, retarders/size, core materials

Learning outcome

The learner will:

4. be able to select materials, components and equipment to produce reverse moulds.

Assessment criteria

The learner can:

- 4.1 interpret information from specifications and drawings
- 4.2 select materials to produce reverse moulds
- 4.3 select tools and equipment to produce reverse moulds
- 4.4 report discrepancies to authorised personnel
- 4.5 follow current environmental and relevant health and safety legislation.

Range

Information

Manufacturers' specifications, data sheets, delivery notes.

Materials

Running moulds: timber, zinc, wood glue

Reverse moulds: Casting plaster, autoclaved plaster, canvas/laths, plasters, sealants/shellac, retarders/size.

Tools and equipment

Running mould: files, tin snips, coping saw, tenon saw, sandpaper, hammer, screwdriver

Reverse mould: Busks, small tools, gauging trowels, splash brushes, shellac brushes, scrapers, knives, scissors.

Learning outcome

The learner will:

5. know how to produce reverse moulds.

Assessment criteria

- 5.1 identify the types of reverse moulds
- 5.2 describe methods of making reverse moulds
- 5.3 name the types of reinforcements
- 5.4 explain the reason for sealing and seasoning models and moulds.

Types of reverse moulds

Plain reverse moulds, loose piece moulds, waste moulds, insertion moulds to form panel, cornice and beam case, hot and cold pour

Methods

Preparation (including construction of running mould), muffling, running, mixing, pouring, forming

Types of reinforcements

Wads, ropes, laths, canvas, fibre-glass

Learning outcome

The learner will:

6. be able to produce reverse moulds.

Assessment criteria

- 6.1 produce running moulds and form reverse
- 6.2 gauge and mix casting plasters
- 6.3 apply casting plasters
- 6.4 position casts for drying and storage
- 6.5 follow current environmental and relevant health and safety legislation.

Unit 226 Casting and fixing fibrous plasterwork

UAN:	K/504/6957
Level:	2
Credit value:	10
GLH:	100
Endorsement by a sector or regulatory body:	Endorsed by Construction Skills.
Aim:	The purpose of this unit is to develop a plasterer's techniques and skills for casting and fixing fibrous plasterwork

Learning outcome

The learner will:

1. understand how to interpret information to cast and fix fibrous plasterwork.

Assessment criteria

The learner can:

- 1.1 explain the purpose of specifications
- 1.2 describe different types of drawings
- 1.3 explain the purpose of schedules for materials
- 1.4 calculate quantities of materials.

Range

Purpose (AC1.1)

Details of work.

Types

Block plan, assembly drawing, site plan, detailed drawing.

Purpose (AC1.3)

Identify suitable material.

Calculate

Areas, volume, linear.

Learning outcome

The learner will:

2. be able to interpret information to cast and fix fibrous plasterwork.

Assessment criteria

The learner can:

- 2.1 check information relating to drawings and specifications
- 2.2 comply with specifications and schedules
- 2.3 interpret manufacturers' information relating to casting and fixing fibrous plasterwork
- 2.4 report discrepancies to authorised personnel
- 2.5 follow current environmental and relevant health and safety legislation.

Range

Drawings and specifications

Manufacturing specification, data sheets

Specifications and schedules

Drawings, verbal instruction.

Manufacturers' information

Manufacturers' specification, data sheets.

Learning outcome

The learner will:

3. know how to select materials, components and equipment to cast and fix fibrous plasterwork.

Assessment criteria

The learner can:

- 3.1 describe **components and equipment** used to cast and fix fibrous plasterwork
- 3.2 describe types of materials used to cast and fix fibrous plasterwork.

Range

Components and equipment

Release agents/grease, shellac/sealants, bench, busks, small tools, scrapers, knives, joint rules, scissors, splash brushes, saw, chalk line, building square, level.

Learning outcome

The learner will:

4. be able to select materials, components and equipment to cast and fix plasterwork.

Assessment criteria

The learner can:

- 4.1 interpret information from specifications and drawings
- 4.2 select materials to cast and fix plasterwork
- 4.3 select tools and equipment to cast and fix plasterwork
- 4.4 report discrepancies to authorised personnel
- 4.5 follow current environmental and relevant health and safety legislation.

Range

Information

Manufacturers' specifications, data sheets, delivery notes.

Materials

Casting plaster, canvas/laths, plasters, sealants/shellac, retarders/size, release agents.

Tools and equipment

Busks, small tools, gauging trowels, splash brushes, shellac brushes, scrapers, knives, scissors, joint rules, handsaw, mitre box.

Learning outcome

The learner will:

5. understand how to cast fibrous plasterwork.

Assessment criteria

- 5.1 identify types of reverse moulds
- 5.2 identify the types of **release agents** used for casting fibrous plasterwork
- 5.3 explain the purpose of **reinforcement** in casting fibrous plasterwork
- 5.4 explain the purpose of **release agents** for casting fibrous plasterwork
- 5.5 explain the use of firstings and seconds
- 5.6 identify methods of storing and curing.

Reverse moulds

Flexible – hot and cold pour

Solid – run reverse, piece mould, panel moulds.

Release agents (AC5.2)

Wax based, petroleum jelly (used in cold pour moulds), tallow.

Reinforcement

Strength, fixing, maintain shape, flexibility, reduce weight.

Release agents (AC5.4)

Good finish, avoid adhesion, protect the reverse.

Firstings and seconds

Reinforcement added / strength, quality/standard of finish, thickness, retarders.

Storing and curing

Storage area, storage conditions (temperature/humidity), weighting (tying down), logistics (pairs).

Learning outcome

The learner will:

6. be able to cast fibrous plasterwork.

Assessment criteria

The learner can:

- 6.1 prepare reverse moulds
- 6.2 cut reinforcement and canvas
- 6.3 gauge and mix materials
- 6.4 apply materials and reinforcement
- 6.5 position casts for drying and storage
- 6.6 follow current environmental and relevant health and safety legislation.

Range

Reverse moulds

Grease, wax, silicone, French chalk.

Learning outcome

The learner will:

7. understand how to fix and finish fibrous plasterwork.

Assessment criteria

The learner can:

- 7.1 describe the different types of fibrous plasterwork
- 7.2 describe the different methods of fixing fibrous plasterwork
- 7.3 identify tools and equipment for fixing and finishing
- 7.4 describe the importance of preparing fixing points
- 7.5 state the purpose of checking backgrounds
- 7.6 explain the **importance** of aligning.

Range

Fibrous plasterwork

Fibrous slabs, dados, friezes, skirtings, architrave, ceiling centers, niches,

cornices.

Methods

Screw, nail, adhesive, bolts, plugs, wire, wad, rebates.

Tools and equipment

Measuring tape, level, square, saw, drill, cordless screwdriver, gauging trowel, claw hammer, mixing bowls, busk, small tools, nails, screws, mitre box, chalk line.

Importance (AC7.4)

Stability, secure, reducing cracking, centres, strength, timber noggins, projection, depth.

Purpose

Control of suction, adhesion, reducing cracking.

Importance (AC7.6)

Quality of finish and appearance, level and plumb, datum points.

Learning outcome

The learner will:

8. be able to fix and finish fibrous plasterwork.

Assessment criteria

- 8.1 prepare materials for fixing and finishing
- 8.2 select tools and equipment for fixing and finishing
- 8.3 pre-drill pilot holes for fixing fibrous plaster to prepared points
- 8.4 position and secure fibrous casts

- 8.5 make good and finish
- 8.6 use correct access equipment for work
- 8.7 follow current environmental and relevant health and safety legislation.

Fixing

Screw, nail, adhesives.

Tools and equipment

Measuring tape, level, square, saw, mitre box, chalk line, drill, cordless screwdriver, busk, joint rule, small tools, gauging trowel, mixing bowls, nails, screws, claw hammer.



Appendix 1 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:

- Regulatory Arrangements for the Qualifications and Credit Framework (2008)
- 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.

City & Guilds Believe you can



www.cityandguilds.com

Useful contacts

UK learners	T: +44 (0)844 543 0033
General qualification information	E: learnersupport@cityandguilds.com
International learners	T: +44 (0)844 543 0033
General qualification information	F: +44 (0)20 7294 2413
	E: intcg@cityandguilds.com
Centres	T: +44 (0)844 543 0000
Exam entries, Certificates,	F: +44 (0)20 7294 2413
Registrations/enrolment, Invoices, Missing or late exam materials, Nominal roll reports, Results	E: centresupport@cityandguilds.com
Single subject qualifications	T: +44 (0)844 543 0000
Exam entries, Results,	F: +44 (0)20 7294 2413
Certification, Missing or late exam	F: +44 (0)20 7294 2404 (BB forms)
materials, Incorrect exam papers,	E: singlesubjects@cityandguilds.com
Forms request (BB, results entry), Exam date and time change	
International awards	T: +44 (0)844 543 0000
Results, Entries, Enrolments,	F: +44 (0)20 7294 2413
Invoices, Missing or late exam	E: intops@cityandguilds.com
materials, Nominal roll reports	
	T: +44 (0)844 543 0000
materials, Nominal roll reports	
materials, Nominal roll reports Walled Garden Re-issue of password or username, Technical problems,	T: +44 (0)844 543 0000
materials, Nominal roll reports Walled Garden Re-issue of password or username, Technical problems, Entries, Results, e-assessment,	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413
materials, Nominal roll reports Walled Garden Re-issue of password or username, Technical problems, Entries, Results, e-assessment, Navigation, User/menu option,	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413
materials, Nominal roll reports Walled Garden Re-issue of password or username, Technical problems, Entries, Results, e-assessment, Navigation, User/menu option, Problems	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413 E: walledgarden@cityandguilds.com
materials, Nominal roll reports Walled Garden Re-issue of password or username, Technical problems, Entries, Results, e-assessment, Navigation, User/menu option, Problems Employer	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413 E: walledgarden@cityandguilds.com
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materials, Nominal roll reports Walled Garden Re-issue of password or username, Technical problems, Entries, Results, e-assessment, Navigation, User/menu option, Problems Employer Employer solutions, Mapping, Accreditation, Development Skills, Consultancy	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413 E: walledgarden@cityandguilds.com T: +44 (0)121 503 8993 E: business@cityandguilds.com

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feedbackandcomplaints@cityandguilds.com

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

City & Guilds Group

The City & Guilds Group operates from three major hubs: London (servicing Europe, the Caribbean and Americas), Johannesburg (servicing Africa), and Singapore (servicing Asia, Australia and New Zealand). The Group also includes the Institute of Leadership & Management (management and leadership qualifications), City & Guilds Licence to Practice (land-based qualifications), the Centre for Skills Development (CSD works to improve the policy and practice of vocational education and training worldwide) and Learning Assistant (an online e-portfolio).

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