

Unit 35: Developing Advanced Skills in Complex Internal Plaster Finishes

Unit code: J/503/5772

QCF Level: 3

Credit value: 20

Guided learning hours: 200

Unit aim

This unit enables learners to understand the tools, equipment and working techniques used to perform internal finishing operations to complex shapes. It gives learners the opportunity to develop skills used in producing work where a high degree of accuracy and quality is required.

Learning outcomes and assessment criteria

In order to pass this unit, the evidence that the learner presents for assessment needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria determine the standard required to achieve the unit.

Learning outcomes	Assessment criteria
1 Understand the preparation required to form complex internal plaster finishes safely	1.1 Describe the setting out procedure for a boarding and skim plaster system to a half turn staircase given sketched construction details 1.2 Calculate the quantity of resources required to plaster board and skim a ceiling given the project drawings 1.3 Calculate the quantity of resources required to fix wallboards with battens to a wall, given a sketched floor plan 1.4 Calculate the quantity of resources required and job duration for a plastering gang to apply one coat sprayed plaster to an insulating block wall, given the floor plan and manufacturer's data 1.5 Explain how to carry out the plaster board and skim to a horizontal service duct at ceiling level given the plans and specification 1.6 Describe the method to fix batten and thermal board to the walls of

	<p>an existing property from working drawings and specification</p> <p>1.7 Explain the construction details for a soundproofed timber floor given the layout drawing and specification</p>
<p>2 Be able to construct plaster finishes safely to complex specifications and locations</p>	<p>2.1 Demonstrate constructing a plasterboard with a skim finish to the bulkhead on a half turn staircase complying with current legislation</p> <p>2.2 Demonstrate a plaster finish to an accessible horizontal service duct at a high level given working drawings, and a specification</p> <p>2.3 Demonstrate applying spray plaster to the reveal of a door opening, complying with site protocol</p> <p>2.4 Apply one-coat plaster to cupboard walls built in lightweight blocks, complying with a given specification</p>
<p>3 Be able to construct boarded systems safely to complex specifications and locations</p>	<p>3.1 Explain how to set out decorative prefinished board to a wall, given information in outline</p> <p>3.2 Demonstrate boarding out a party wall to maintain a fire resistance of 60 minutes given a layout and manufacturer's information, complying with current legislation</p> <p>3.3 Prepare background for applied finishes to a specified accuracy and given specification</p> <p>3.4 Fix an accessible panel to a vertical service duct given an architect's instruction, complying with current legislation</p> <p>3.5 Describe the surface preparation to be carried out prior to boarding a wall, given product information and wall details</p>

Unit content

1 Understand the preparation required to form complex internal plaster finishes safely

Setting out: location; shape; size; curved; graphical (scaled drawings, plans, elevations, detailed sections, sketches); template; temporary support

Plaster system: plaster (one-coat work, two-coat work, manual, sprayed); plaster type (board, browning, finish); mix (sanded, lightweight, manual, sprayed); backgrounds (base, wall and thermal board)

Construction details: project drawings (plans, elevations, sections, architect's specification); sketches; scaled drawings; contract documents (drawings, layout, assembly, component, coordinated project information, bill of quantities, specifications); product information

Calculate: quantity; length; area; volume; wastage percentage; duration; gang size

Quantity of resources: substrata (use, limitations, hazards, defects); quality; uses; limitations; hazards and defects associated with the resources (plasters, cements, limes and sand, additives); mix method (hand, mixers and ancillary equipment); plasterboards (base, wall and thermal board); sand; lime; cement plaster (browning, bonding, finish, board finish); scrim; angle bead; fixings (nails, screws, adhesive, sealant); tools (trowels, floats, hawk, rule, scratcher, darby, plastic float, Stanley knife, hand mixer, feather edge, wet brush, mixing tub, snips, tape measure, club hammer, mixing shovel, tin snips, claw hammer, spirit level); equipment (petrol and electric mixers, hand mixer, drill, whisk, low-level access platforms, hop-ups, ladders, tower scaffolds)

2 Be able to construct plaster finishes safely to complex specifications and locations

Legislation: main contractor's responsibility (site safety, health, welfare) sub-contractor responsibilities; environment; Building Regulations (stability, wind, fire, sound, conservation of fuel and power); insurances (employer, public liability, contractual); Control of Substances Hazardous to Health (COSHH); waste (reduction methods, recycling, removal, disposing, carrier licences, transporting, hazardous and non-hazardous, waste calculations, monitoring); temporary electricity (low voltage, powered hand tools and local lighting)

Site protocol: safety signs (advisory, prohibitive, mandatory, warning); first aid (emergency, trained first-aider, first aid box requirements, medical hazards, drugs, alcohol); risk control mechanism; work methods; site logistics; hazardous materials; material movement; storage; mechanical plant and equipment (lifting, transporting, fixing, forming cutting and fixing); scaffold; power access equipment; welfare facilities; component protection (site storage, in place protection); traffic routes; walkways; waste (licences, consent); temporary site utilities (water, electricity, drainage, telecommunications)

Quality specification: contract documents (drawings, specification, bill of quantities); architect; clerk of works; resident engineer; building control; British Standards Specifications; Codes of Practice; Eurocodes

3 Be able to construct boarded systems safely to complex specifications and locations

Project information: coordinated project information (layout, assembly, component drawings); specifications (National Building Specification (NBS)); contract documents (plans, elevations, sections, architect's specification; bill of quantities); sketches; scaled drawings; trade literature; catalogues

Legislation: working at height legislation; COSHH; manual handling; Lifting Operation and Lifting Equipment Regulations (LOLER); Provision and Use of Work Equipment Regulations (PUWER); site safety induction and control; permits to work; hot permit

Preparation of surfaces: solid plaster backgrounds; boarded; walls (brick, thermal and dense concrete block, stone metal and timber stud); protection (physical damage; abuse; malicious; accidental)

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