

Unit 36: Developing Advanced Skills in the Application of Plaster Materials to Complex External Surfaces

Unit code: L/503/5773

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 external render operations to complex shapes and specifications. It gives learners the opportunity to develop skills used in producing structural site carpentry 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 rendering operations to complex locations and plans	<p>1.1 Describe setting out procedure for an isolated rendered decorative panel in a gable end from given sketched construction details</p> <p>1.2 Calculate the quantity of resources required for dry dash render to a stonewall, in the format of a work method sheet based on given project drawings</p> <p>1.3 Explain how to complete the smooth rendering to a soffit of a semi-circular arch over a window given the plans and specification</p> <p>1.4 Describe the method for applying a combed rendering to a complex plan, complying with site protocol</p> <p>1.5 Explain the site quality control for a proprietary external wall rendering system, from given manufacturer's details</p>

<p>2 Be able to construct decorative isolated rendered panels to complex specifications safely</p>	<p>2.1 Construct an isolated dry dash rendered panel to a solid brick wall, complying with current legislation</p> <p>2.2 Construct a 3-coat indented panel with a decorative finish from given working drawings, complying with current legislation</p> <p>2.3 Construct a roughcast render panel to an architectural band working from a tower access panel, based on given project information</p> <p>2.4 Fit temporary protection to a decorative window feature, rendered to the reveals and jamb, complying with site protocol</p>
<p>3 Be able to construct decorative panels and wall rendering to complex plans and specifications safely</p>	<p>3.1 Explain the quality control procedure when applying a 1-coat proprietary render to a house based on sketched plans and manufacturer's literature</p> <p>3.2 Construct a trowelled smooth 1-coat render to a wall from given working drawings and bill of quantities to a specified accuracy and specification</p> <p>3.3 Apply a 2-coat wood float finished render to a complex semi-circular wall on plan to a specified accuracy from a given specification</p> <p>3.4 Apply a 2-coat render with an expansion joint and fair stop end to facing brick wall from an architect's instruction, complying with current legislation</p>

Unit content1 Understand the preparation required to form rendering operations to complex locations and plans

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

Render: type (cement, resin, proprietary, spray); finish (trowelled smooth, stippled, combed, wood float, scraped, roughcast, dry dash); accessories (precast elements, reinforcement, expansion joint, beads, stops)

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

Quantity of resources: labour (skilled, semi-skilled, general building operatives); materials; metalwork (metal, polymer); access equipment (ladders, hop-ups, stepladders, lightweight tower scaffolds, trestles and staging); material handling (manual, mechanical); portable power tools (cutting, forming, shaping, site electrical, portable); personal protective clothing; safety barriers and guards

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

2 Be able to construct decorative isolated rendered panels to complex specifications safely

Legislation: main contractor's responsibility (site safety, health, welfare); sub-contractor; environment; Building Regulations (stability, wind, fire); 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)

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

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)

Protection: damage (physical damage, abuse, malicious, accidental)

3 Be able to construct decorative panels and wall rendering to complex plans and specifications safely

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; waste (segregation, site storage bins, recycle)

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