

# Unit 10: Building Masonry Structures

Unit code: K/503/4940

QCF Level: 2

Credit value: 10

Guided learning hours: 100

## Unit aim and purpose

This unit should develop learners' understanding and use of tools, equipment and working techniques used to perform trowel occupations in building masonry structures.

## 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 how to erect domestic masonry structures to a contract specification | 1.1 interpret information to build a specified structure<br>1.2 explain how to apply safe working practices to a masonry build<br>1.3 select resources to build a masonry structure to a contract specification<br>1.4 explain the construction methods to build a masonry structure to a contract specification |
| 2 Be able to erect domestic masonry structures to a contract specification        | 2.1 minimise the risk of damage to the work surroundings whilst carrying out a build activity<br>2.2 carry out a build activity using materials to a contract specification<br>2.3 complete the work to a contract specification, in the allocated time  |

## Unit content

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### 1 Understand how to erect domestic masonry structures to a contract specification

*Interpret information, safe working practices:* plans, drawings and specifications; construction in accordance with the plans in both brick and block; cutting components by hand and disc cutter as required and with finished jointing (half round, weathered and flush); accuracy to acceptable industry standards (+/- 5mm); current legislation; organisational procedures; safe working practices; manufacturers' information; risk assessments; method statements; reporting procedures and rectification of inappropriate and incorrect information; security procedures; accident reporting

*Resources:* requisition form for the selection of tools, equipment, personal protective equipment (PPE), and materials to construct walls, isolated and attached piers

*Calculations:* resource quantities required for building solid walling (length, area, wastage, quantities, and volumes of bricks and mortar)

*Checks:* suitability of resources for building solid walling, isolated and attached piers; positioning of datum heights; characteristics of resources (limitations, quality, uses, defects in relation to bricks, blocks, mortars, frames, insulation, damp-proof barriers, lintels, fixings, ties, hand tools, power tools); hazards of resources and methods of work

### 2 Be able to erect domestic masonry structures to a contract specification

*Minimising the risk of damage:* methods of protection of work area and surrounding area; minimising damage; maintaining clean working space; purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions

*Work programme:* importance of completing work within allocated time, impact and consequences otherwise; purpose of work programme; progress charts; estimated times; reporting circumstances which will impact on work schedule

*Setting out solid walling:* setting up work area including positioning of blocks and components ready for use; door openings; window opening; use of brick and block and/or local materials

*Constructing to plan:* measuring; marking out; laying; positioning; securing; brick, block and local materials; cavity wall structures; blockwork structures; solid wall structures; joint finishes

*Safe working practices:* procedures; problem reporting; authority to rectify; erection of walling; determination of brick and block bonds; formation of joint finishes; positioning damp proof barriers; mixing mortar; using hand tools; using power tools; using equipment; crane handled or mechanically handled loads; work at height; access equipment; safe cleaning; maintenance and storage of tools and equipment

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