

## Unit 20: Developing Advanced Skills in Tile Hanging Operations

Unit code: D/503/5762

QCF Level: 3

Credit value: 15

Guided learning hours: 150

### Unit aim

This unit enables learners to understand the tools, equipment and working techniques used to perform tile hanging operations, using roof tiles and slates. It gives learners the opportunity to use modern and traditional techniques on a variety of aesthetic wall treatment systems.

### 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 isolated tile hanging to various wall structures	<p>1.1 Describe the setting out method for hanging tiles in an isolated area (at least 2 metres square) using double lap roof covering that is fixed to a wall structure</p> <p>1.2 Calculate the quantity of resources required for a given tile hanging area (at least 2 metres square), based on architect's details and specification</p> <p>1.3 Explain how the abutment detail will be waterproofed using flashings for an indented double lap tile hanging area, including the use of personal protective equipment</p> <p>1.4 Describe the construction details for waterproofing an ornamental double lap plain tile hanging to a timber framed masonry clad house</p> <p>1.5 Describe the use of site logistic protocols that are provided by the main contractor to allow the construction of double lap slate (random) tile hanging to an external rendered brick house</p>

	<p>1.6 Explain a waste reduction technique to minimise waste when constructing a single lap interlocking tile hanging to a dormer cheek constructed in timber and plywood</p>
<p>2 Be able to construct decorative tile hanging features safely using roofing tiles and slates</p>	<p>2.1 Select resources required to carry out a specified activity based on given work methods</p> <p>2.2 Carry out preliminary checks for access and egress to and from the work area to maintain a safe working area</p> <p>2.3 Demonstrate the safe method for tile hanging using double lapped plain roof tiles in an indented area (minimum 2 metre square) of a lightweight block wall structure, complying with current legislation</p> <p>2.4 Demonstrate waterproofing the abutments of tile hanging constructed in double lapped plain roof tiles in an indented area (minimum 2 metre square) of a lightweight block wall, complying with current legislation</p> <p>2.5 Demonstrate the safe method for tile hanging using double lapped regular roof slates to an indented area (minimum 2 metre square) of a brick and block cavity wall, complying with current legislation</p> <p>2.6 Demonstrate the safe method of tile hanging using double lapped plain roof tiles to a dormer cheek (minimum 2 metre square) formed in timber and plywood, complying with current legislation</p> <p>2.7 Demonstrate correct removal of waste materials and equipment from the work area, leaving it safe and clean</p>

## Unit content

### 1 Understand the preparation required to isolated tile hanging to various wall structures

*Tile hangings:* flush; indented; projecting

*Wall structure:* solid wall (brick, lightweight block, dense concrete block, insulation block); cavity wall (brick and lightweight block, insulation block both skins of cavity); timber stud (plywood cladding to timber frame); timber framed brick clad

*Roof covering:* tile (single lap, interlocking, double lap); slating (regular, random, double lap, single lap interlocking, ornamental)

*Quantity of resources:* hoist and scaffolding provided by main contractor; material handling (manual, mechanical); portable power tools (cutting, forming, shaping, site electrical, portable); personal protective clothing

*Site logistic protocol:* entry; inductions; site logistics; first aid; emergency; standing scaffold; office facilities; material movement; storage; mechanical and small plant and equipment (lifting, transporting, fixing, forming cutting and fixing)

*Waste:* methods (site procedures, roofing sub-contractor contract requirements); site protocols; salvage; segregation; waste monitoring (numeric, percentage); disposal (carrier and site licences)

### 2 Be able to construct decorative tile hanging features safely using roof tiles and slates

*Tile hangings:* flush; indented; projecting

*Wall structure:* solid wall (brick, lightweight block, dense concrete block, insulation block); cavity wall (brick and lightweight block, insulation block both skins of cavity); timber stud (plywood cladding to timber frame); timber framed brick clad

*Resources:* hoist and scaffolding provided by main contractor; material handling (manual, mechanical); portable power tools (cutting, forming, shaping, site electrical, portable ); power access equipment; personal protective clothing

*Roof tiles:* single lap; interlocking; double lap; plain; ornamental

*Roof slates:* regular; random; double lap; single lap interlocking; ornamental

*Legislation:* main contractor's responsibility (shared health safety and welfare facilities, scaffolding); first aid (site procedures, operative responsibilities; basic first aid procedures, site facilities, trained first-aider); Health and Safety Executive advice, safety bulletins and publications; Scheme Card (roofer, supervisor, health and safety test, competency tests, supervisor career pathway); emergency procedure (reporting near misses; accident prevention, falls, trips; adverse weather conditions, cold, heat, wind; unsafe scaffold, risk assessment, hazard, signage); abrasive wheels; PPE

*Waste:* site procedure (main contractor, roofing sub-contractor); site protocols (removal, manual and mechanical handling, segregating and salvage; crushing, screening, disposal; waste documentation, licences)