

# Unit 15: Roof Tiling Operations

Unit code: R/503/4947

QCF Level: 2

Credit value: 10

Guided learning hours: 60

## Unit aim and purpose

This unit should enable learners to understand the tools, equipment and working techniques they will need to perform roofing tasks, and gives learners the opportunity to use these techniques to lay a variety of tiling and slating systems to a domestic dwelling. This unit supports the NVQ unit Level 2 Roofing Operations.

## 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 in roof tiling and slating	1.1 explain how to comply with legislation to maintain safe working practices for given roofing tasks 1.2 calculate materials, tools and equipment associated with a given roofing system 1.3 describe manual and plant handling methods for site transporting and storage of materials and equipment 1.4 explain the importance of dealing with waste appropriately, including minimising its creation
2 Be able carry out roof tiling operations safely at height	2.1 select resources and equipment required to carry out a specified activity based on given work methods, applying safe working practices 2.2 carry out safe roof tiling operations to a pitched roof to a

	<p>contractor specification</p> <p>2.3 carry out correct removal of waste materials from the work area according to legislation and organisational procedures.</p>
<p>3 Understand the ridge, verge and eaves construction methods used for a given roofing system</p>	<p>3.1 use fixing information from trade literature for dry construction to a ridge, verge and eaves for a single lap profiled tile</p> <p>3.2 explain the standard ridge, verge and eaves construction for a single lap tiling system</p> <p>3.3 explain the standard ridge, verge and eaves using cement mortar construction for a double lap tiling system</p> <p>3.4 explain a standard dry verge construction to a proprietary tiling system.</p> <p>3.5 explain the importance of classifying, segregating and removing waste</p>
<p>4. Be able to carry out ridge verge and eaves roof tiling operations safely at height</p>	<p>4.1 construct a cement sand verge to a double lap tile system to a contractor specification, applying safe working practices</p> <p>4.2 construct a dry ridge and eaves detail to a proprietary single lap tiling system to a contractor specification, applying safe working practices</p>

## Unit content

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### **1 Understand the preparation required in roof tiling and slating**

*Legislation:* main contractor's responsibility for site safety, health and welfare; subcontractor's legal, statutory and contractual responsibilities under safety health and welfare; operative's role and responsibilities for safety of site environment and general public; access and egress to working areas at height (domestic two storey)

*Resources:* supporting structures (traditional purlined roof carcass and trussed rafter pitched roof carcass); batten; counter-battening; fillets, hips and valleys

*Tools and equipment:* manual handling; mechanical movement; power tools and temporary electrical installation

*Roofing systems:* single lap tiling, double lap, interlocking proprietary systems; warm and cold roof construction

*Removal of waste:* manual and mechanical; transportation; hazardous and non-hazardous

### **2 Be able to carry out roof tiling operations safely at height**

*Legislation:* working at height legislation; Control of Substances Hazardous for Health (COSHH); manual handling; Provision and Use of Work Equipment Regulations (PUWER); operative's role and responsibilities for safety of site environment; personal protective equipment (PPE); preliminary checks for access and egress from the work area to maintain a safe working area

*Roofing systems:* single lap; single lap interlocking; double lap, nail and proprietary mechanical fixing; manual handling and transportation of timber battens, underlay, insulation and roof coverings at height; manual and mechanical site clearance operations to site recycling area

### **3 Understand the ridge, verge and eaves construction methods used for a given roofing system**

*Roof construction:* at ridge (verge and eaves (single lap, double lap and proprietary roofing system)); cement sand ridge; verge and eaves details for single and double lap tiling; proprietary details obtain from current trade literature for a dry ridge, verge and eaves construction

*Waste:* classification; hazardous and non-hazardous; recycling; disposal; documentation for legal requirements

### **4 Be able to carry out ridge verge and eaves roof tiling operations safety at height**

*Roof construction:* at ridge (verge and eaves (single lap, double lap and proprietary roofing system)); cement sand ridge, verge and eaves details for single and double lap tiling; proprietary dry system based on trade literature ridge, verge and eaves details for single lap and single lap interlocking system

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