

# COSVR276 - SQA Unit Code DY29 04

## Install regular sized natural roof slate to standard roof details



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### Overview

This standard is about

- 1 interpreting information
- 2 adopting safe and healthy working practices
- 3 selecting materials, components and equipment
- 4 installing regular sized natural slate roof coverings to pitched areas for new and/or re-roof work

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#### **Performance criteria**

- You must be able to:*
- P1 interpret the given information relating to the work and resources to confirm its relevance
  - P2 comply with the given, relevant legislation and official guidance to carry out your work and maintain safe work practices
  - P3 select the required quantity and quality of resources for the methods of work
  - P4 comply with organisational procedures to minimise the risk of damage to the work and surrounding area
  - P5 comply with the given contract information to carry out the work efficiently to the required specification
  - P6 complete the work within the allocated time, in accordance with the programme of work

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### Knowledge and understanding

*You need to know and understand:*

#### Performance Criteria 1

##### Interpretation of information

- K1 the organisational procedures developed to report and rectify inappropriate **information** and unsuitable **resources**, and how they are implemented
- K2 the types of **information**, their source and how they are interpreted
- K3 the organisational procedures to solve **problems** with the **information** and why it is important they are followed

#### Performance Criteria 2

##### Safe work practices

*You need to know and understand:*

- K4 the level of understanding operatives must have of **information** for relevant, current **legislation and official guidance** and how it is applied
- K5 how **emergencies** should be responded to and who should respond
- K6 the organisational **security procedures** for tools, equipment and personal belongings
- K7 what the accident reporting procedures are and who is responsible for making the report
- K8 why and when **personal protective equipment (PPE)** should be used

#### Performance Criteria 3

##### Selection of resources

*You need to know and understand:*

- K9 the characteristics, quality, uses, limitations and defects associated with the **resources** and how defects should be rectified
- K10 how the **resources** should be used and how any **problems** associated with the **resources** are reported
- K11 the organisational procedures to select **resources**, why they have been developed and how they are used
- K12 the **hazards** associated with the **resources** and **methods of work** and how they are overcome

#### Performance Criteria 4

##### Minimise the risk of damage

*You need to know and understand:*

- K13 how to **protect work** from damage and the purpose of protection
- K14 why **disposal of waste** should be carried out safely and how it is achieved

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<i>You need to know and understand:</i>	<b>Performance Criteria 5</b> <b>Meet the contract specification</b> K15 how <b>methods of work</b> , to meet the specification, are carried out and <b>problems</b> reported K16 how <b>maintenance</b> of tools and equipment is carried out
<i>You need to know and understand:</i>	<b>Performance Criteria 6</b> <b>Allocated time</b> K17 what the <b>programme</b> is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

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### Additional Information

#### Scope/range related to performance criteria

#### Performance Criteria 1

- 1 interpretation of contractor's working instructions related to the work to be carried out

#### Performance Criteria 2

- 2 safe use of personal protective equipment (PPE) and access equipment/working platforms to carry out the activity, in accordance with legislation and/or organisational requirements
- 3 safe use and storage of tools and equipment

#### Performance Criteria 3

- 4 selection of resources associated with own work
  - 4.1 materials, components and fixings
  - 4.2 tools and equipment

#### Performance Criteria 4

- 5 protection of the work and its surrounding area from damage
- 6 minimise damage and maintain a clean work space
- 7 disposal of waste in accordance with legislation

#### Performance Criteria 5

- 8 demonstration of work skills to measure, set out, mark out, grade, size and hole, cut, fit, mix, position, secure and finish
- 9 use and maintain hand tools, power tools and ancillary equipment
- 10 install battens, regular sized natural roof slates and related fittings, fixings and components to given working instructions, using new and/or reclaimed materials for roofs with
  - 10.1 verges and ridges
  - 10.2 ridged hips
  - 10.3 open valleys
  - 10.4 eaves and tops course
  - 10.5 abutments
  - 10.6 openings
  - 10.7 dry and/or sand and cement wet finishing details

#### Performance Criteria 6

- 11 completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client

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### Scope/range related to knowledge and understanding

#### Disposal of waste

- 1 environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance

#### Emergencies

- 2 operative's response to situations in accordance with organisational authorisation and personal skills when involved with
  - 2.1 fires, spillages, injuries

#### Hazards

- 3 those identified by method of work, manufacturers' technical information, statutory regulations and official guidance

#### Information

- 4 contractor's working instructions, manufacturers' information, procedures for dealing with damaged and incorrect materials and/or resources and regulations governing buildings

#### Legislation and official guidance

- 5 this relates to the operative's responsibilities regarding potential accidents and health hazards whilst working in the workplace, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting

#### Maintenance

- 6 operative care of hand tools and/or power tools and ancillary equipment

#### Methods of work

- 7 application of knowledge for safe work practices, procedures and skills, relating to the method/area of work and materials used, to
  - 7.1 assess suitability of sub-structure for re-roofing
  - 7.2 set out for battens, slates and components
  - 7.3 determine lap details for imperial and metric slates
  - 7.4 hole, grade and cut
  - 7.5 install slates and components to eaves and tops course, verges, ridge, hips, valleys, openings and abutments, vertical and general areas
  - 7.6 form ridged hips and open valleys
  - 7.7 mix sand and cement
  - 7.8 mix mortar with additives
  - 7.9 unobtrusively include reclaimed materials
  - 7.10 form dry and/or wet fix finishing details
  - 7.11 use hand tools, power tools and ancillary equipment
  - 7.12 work at height
  - 7.13 use access equipment
- 8 team work and communication
- 9 needs of other occupations associated with roof slating and/or tiling

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#### **Personal protective equipment (PPE)**

10 occupational use, types, purpose of each type and work situations

#### **Problems**

11 those arising from information, resources and methods of work

11.1 own authority to rectify

11.2 organisational reporting procedures

#### **Programme**

12 types of work schedules/diaries, progress charts, timetables and estimated times

13 organisational procedures for reporting circumstances which will affect the work programme

#### **Protect work**

14 protect work against damage from general workplace activities, other occupations and adverse weather conditions

#### **Resources**

15 materials, components and equipment relating to types, quantity, quality and sizes of standard and/or specialist

15.1 regular sized natural slates, fixings, soakers, ridge and hip tiles, battens, dry fix systems, mortar and ventilation systems

15.2 sand, cement and additives

15.3 hand and/or powered tools and ancillary equipment

16 methods of calculating quantity, length and area associated with the method/procedure to install regular sized natural slates to standard roof details

#### **Security procedures**

17 site, company and operative

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**Relevant occupations** Roofers, Roof Tilers and Slaters

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**Suite** Roofing Occupations (Construction); Heritage Skills (Construction)

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**Key words** Hole-slates; Soakers; Pitch-roof; Set-out; Battens; Ridged-hips; Open-valleys; Verges; Slate-eaves; Ventilation-systems; Abutments; Top-course; Vertical-tiling