
Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment and preparing and installing fully supported lead and/or hard metal tapered, concave, convex and segmented roofing and cladding profiles

This standard is for people working in the occupational area of fully supported lead and/or hard metal roofing and cladding and can be used by operatives, supervisors and managers working on new build, repair and maintenance, or on conservation or restoration projects

COSVR687– SQA Unit Code HM26

Prepare and install fully supported lead and hard metal decorative roofing and cladding

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 and healthy 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, when and how **health and safety control equipment** should be used
- K9 how to comply with environmentally responsible work practices to meet current **legislation and official guidance**

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Performance Criteria 3

Selection of resources

You need to know and understand:

- K10 the characteristics, quality, uses, sustainability, limitations and defects associated with the **resources** and how defects should be rectified
- K11 how the **resources** should be used and how any **problems** associated with the **resources** are reported
- K12 the organisational procedures to select **resources**, why they have been developed and how they are used
- K13 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:

- K14 how to **protect work** from damage and the purpose of protection
- K15 why **disposal of waste** should be carried out safely and how it is achieved

Performance Criteria 5

Meet the contract specification

You need to know and understand:

- K16 how **methods of work**, to meet the specification, are carried out and **problems** reported
- K17 how **maintenance** of tools and equipment is carried out

Performance Criteria 6

Allocated time

You need to know and understand:

- K18 what the **programme** 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 oral/written instructions, drawings, specifications, schedules, method statements, risk assessments and manufacturers' information related to the work to be carried out

Performance Criteria 2

- 2 avoidance of risk by complying with the given information relating to the following
 - 2.1 methods of work
 - 2.2 safe use of health and safety control equipment
 - 2.3 safe use of access equipment
 - 2.4 safe use, storage and handling of materials, tools and equipment
 - 2.5 specific risks to health

Performance Criteria 3

- 3 selection of resources associated with own work
 - 3.1 materials, components and fixings
 - 3.2 tools and equipment

Performance Criteria 4

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

Performance Criteria 5

- 7 demonstration of work skills to measure, set/mark out, profile, cut, joint, position, secure and finish
- 8 use and maintain hand tools, power tools and ancillary equipment
- 9 prepare and install fully supported lead or hard metal decorative roofing or cladding, incorporating coverings/weatherings, to two of the following profiles to given working instructions
 - 9.1 tapered
 - 9.2 concave
 - 9.3 convex
 - 9.4 segmented

Performance Criteria 6

- 10 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
 - 2.2 emergencies relating to occupational activities

Hazards

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

Health and safety control equipment

- 4 identified by the principles of prevention for occupational use, types and purpose of each type, work situations and general work environment
 - 4.1 collective protective measures
 - 4.2 personal protective equipment (PPE)
 - 4.3 respiratory protective equipment (RPE)
 - 4.4 local exhaust ventilation (LEV)

Information

- 5 oral/written instructions, drawings, electronic data, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing buildings

Legislation and official guidance

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

Maintenance

- 7 operative care of hand tools, power tools and ancillary equipment

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Methods of work

- 8 application of knowledge for safe and healthy work practices, procedures and skills relating to the method/area of work and materials used to
 - 8.1 identify and report faults with sub-structure and roof interfaces
 - 8.2 install/fabricate ventilation systems
 - 8.3 lay underlay if required
 - 8.4 prepare and install fully supported lead or hard metal decorative roofing and cladding to tapered, concave, convex or segmented profiles (spires, domes, cupola, onion, barrel vault structures)
 - 8.5 install fully supported lead or hard metal coverings/weatherings to surfaces and abutments for soffits, cornices/parapets and gutters
 - 8.6 set/mark out roof/cladding
 - 8.7 prepare/fabricate lead or hard metal (cut to length and profile)
 - 8.8 join and terminate lead or hard metal in width and length
 - 8.9 ensure the integrity of joints, fixings and ventilation
 - 8.10 validate appropriate ways in which the work should be carried out
 - 8.11 recognise sensitive areas
 - 8.12 maintain heritage and archaeological integrity
 - 8.13 maintain the principles of minimum intervention and reversible alterations
 - 8.14 stop work at the point when conjecture begins and report findings
 - 8.15 record work carried out (written, photographic or digital)
 - 8.16 recognise and/or report endangered/protected flora and fauna
 - 8.17 remove deteriorated and/or inappropriate materials
 - 8.18 maintain existing structure
 - 8.19 integrate existing and new constructional components or finishes
 - 8.20 store salvageable fabric, materials and structural components
 - 8.21 use hand tools, power tools and equipment
 - 8.22 work at height
 - 8.23 use access equipment
- 9 team work and communication
- 10 needs of other occupations associated with preparing and installing fully supported decorative lead or hard metal roofing or cladding

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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 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, sizes and the sustainability of standard and/or specialist
 - 15.1 lead, hard metal, underlay, vents, fixings, fittings and ancillary items
 - 15.2 hand tools, power tools and equipment
- 16 methods of calculating quantity, length, area and wastage associated with the method/procedure to prepare and install fully supported lead or hard metal decorative roofing and cladding

Security procedures

- 17 site, workplace, buildings, company and operative

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