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**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 external wall insulation

This standard is for people working in the occupational area of insulation and building treatments and can be used by operatives, supervisors and managers

**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

## Install external wall insulation

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### Knowledge and understanding

#### Performance Criteria 1

##### Interpretation of information

You need to know and understand:

- 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**

**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

**Additional Information**

**Scope/range related to performance criteria**

**Performance Criteria 1**

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments and manufacturers' information and data sheets 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 and work platforms
  - 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 remove, measure, mark out, fit, fill, finish, position and secure
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 prepare and install external wall insulation to given working instructions, relating to at least one of the following
  - 9.1 pre-finished insulation systems/methods
  - 9.2 non-finished insulation systems/methods
- 10 carry out pre and post installation checks

**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 and data sheets, 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 and data sheets, 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 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and data sheets, 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, below ground level, 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/technician care of hand tools, portable power tools and ancillary equipment

**Methods of work**

- 8 application of knowledge for safe, healthy and environmental work practices, procedures and skills relating to the method/area of work and materials used to
  - 8.1 carry out external and internal pre-installation checks: level, plumb, structural integrity, dampness, vents, services (gas, electric, water, media cables)
  - 8.2 recognise the procedures to check flues and combustion air ventilation
  - 8.3 understand the implications of existing guarantees and warranties
  - 8.4 confirm condition of substrate for installation
  - 8.5 remove existing defective surface finishes
  - 8.6 install pre-finished or non-finished insulation systems/methods to all surface areas including door and window reveals
  - 8.7 minimise the effects of thermal bridging
  - 8.8 make good existing surface finishes
  - 8.9 reinstate ancillary wall fixtures (downpipes, fences, handrails)
  - 8.10 provide temporary protective covers to work areas
  - 8.11 apply treatments to existing walls
  - 8.12 cut and fix pre-formed trims
  - 8.13 cut and fix mounting blocks
  - 8.14 cut, line, level, drill and fix tracks, beads, shims, joints, cills
  - 8.15 complete post installation checks: compliance with specifications, water penetration, anchorage/fixing, vents, services (gas, electric, water, media cables)
  - 8.16 install vapour control/airtightness layers where appropriate
  - 8.17 recognise when specialist skills and knowledge are required and report accordingly
  - 8.18 recognise specific requirements for structures of special interest, traditional (pre 1919) and historical significance
  - 8.19 use hand tools, portable power tools and equipment
  - 8.20 work at height
  - 8.21 use access equipment and work platforms
- 9 team work and communication
- 10 needs of other occupations associated with the installation of external wall insulation

**Problems**

11 those arising from information, resources, methods of work and building conditions

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 insulation materials, tracks, adhesives, sealants, mechanical fixing components, pre-formed trims, tracks and shims, beads, joints and cills

15.2 vapour control/airtightness layers

15.3 hand tools, portable power tools and equipment

16 methods of calculating quantity, length, area and wastage associated with the method/procedure to install external wall insulation

**Security procedures**

17 site, workplace, vehicles, company and operative/technician



## COSVR448 – SQA Unit Code HL63 04

### Install external wall insulation

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