

# COSVR451 - SQA Unit Code H1RM 04

## Install loft insulation



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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 preparing and installing rigid and/or quilt and/or blown and/or sprayed insulation and insulation to access hatches, pipes, tanks, and/or cylinders in roof areas

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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, when and how **health and safety control equipment** should be used

#### Performance Criteria 3

##### Selection of resources

*You need to know and understand:*

- K9 the characteristics, quality, uses, sustainability, 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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### Performance Criteria 5

#### Meet the contract specification

*You need to know and understand:*

K15 how **methods of work**, to meet the specification, are carried out and **problems** reported

K16 how **maintenance** of tools and equipment is carried out

### Performance Criteria 6

#### Allocated time

*You need to know and understand:*

K17 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

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#### Performance Criteria 1

- 1 interpretation of 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 following 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 and storage of materials, tools and equipment

#### 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 legislation

#### Performance Criteria 5

- 7 demonstration of work skills to measure, mark out, calculate, cut, fit, position and secure
- 8 use and maintain hand tools and insulating processing equipment (rigid/quilt/blown/sprayed)
- 9 prepare and install the following in compliance with current regulations and to given working instructions
  - 9.1 rigid and/or quilt and/or blown and/or sprayed loft insulation
  - 9.2 pipe coverings
  - 9.3 tank and/or cylinder insulation
  - 9.4 access hatch insulation

#### 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 protection 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 regulations governing buildings

#### Legislation and official guidance

- 6 this relates to the operative's responsibilities regarding potential accidents and health hazards whilst working in the workplace, at height, in confined spaces, 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 and insulating process equipment

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### Methods of work

- 8 application of knowledge for safe work practices, procedures and skills, relating to the method/area of work and materials used, to
  - 8.1 protect access routes
  - 8.2 remove obstructions and store
  - 8.3 remove unwanted insulation from roof area
  - 8.4 carry out pre-installation checks
  - 8.5 check adequacy of ventilation
  - 8.6 stop work at the point when conjecture begins and report findings
  - 8.7 prepare and install rigid, quilt, blown and sprayed loft insulation
  - 8.8 identify insulation materials and their characteristics for loft, pipe and storage tanks
  - 8.9 minimise the effects of thermal bridging
  - 8.10 insulate up to and under existing walkway boards
  - 8.11 check serviceability and provision of walkway boards
  - 8.12 prepare and fix pipe insulation
  - 8.13 prepare and fix tank and cylinder insulation
  - 8.14 ensure the insulation is contained within the prescribed areas
  - 8.15 ensure insulation will not create future hazards (light fittings and cables)
  - 8.16 restrict or reduce unwanted ventilation (down lights and other fittings)
  - 8.17 insulate access hatches
  - 8.18 check and maintain ventilation
  - 8.19 provide advice to preserve the integrity of the insulation (insulation data sheet and warning labels)
  - 8.20 use hand tools and insulating process equipment (rigid, quilt, blown and sprayed)
  - 8.21 use access equipment
- 9 team work and communication
- 10 needs of other occupations associated with installing loft insulation

### 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

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### Resources

- 15 materials, components and equipment relating to types, quantity, quality, sizes and sustainability of standard and/or specialist
  - 15.1 insulation, pipe coverings, tank and/or cylinder jackets, fixings and ancillary items
  - 15.2 hand tools and insulating process equipment (rigid, quilt, blown, sprayed)
- 16 methods of calculating quantity, area and wastage associated with the method/procedure to install loft insulation

### Security procedures

- 17 site, workplace, company and operative/technician



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