
Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices and selecting materials, components and equipment for identifying and repairing defects in waterproof membrane roofing on new and/or re-roofing contracts

This standard is for people working in the occupational area of reinforced bitumen, single ply and liquid applied membrane roofing systems and can be used by operatives, supervisors and managers

COSVR686

Repair membrane roofing
systems(SQA Unit Code-H7DB 04)

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

**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 the types of **fire extinguishers** and how and when they are used
- K6 how **emergencies** should be responded to and who should respond
- K7 the organisational **security procedures** for tools, equipment and personal belongings
- K8 what the accident reporting procedures are and who is responsible for making the report
- K9 why, when and how **health and safety control equipment** should be used
- K10 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:

- K11 the characteristics, quality, uses, sustainability, limitations and defects associated with the **resources** and how defects should be rectified
- K12 how the **resources** should be used and how any **problems** associated with the **resources** are reported
- K13 the organisational procedures to select **resources**, why they have been developed and how they are used
- K14 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:

- K15 how to **protect work** from damage and the purpose of protection
- K16 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:

- K17 how **methods of work**, to meet the specification, are carried out and **problems** reported
- K18 how **maintenance** of tools and equipment is carried out

Performance Criteria 6

Allocated time

You need to know and understand:

- K19 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, manufacturers' information and oral/written instructions 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, handling and distribution 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, cut, fit, apply, position and secure
- 8 use and maintain hand tools, power tools and ancillary equipment
- 9 repair reinforced bitumen and/or single ply and/or liquid applied membrane roofing systems to given working instructions relating to at least one of the following
 - 9.1 damaged membranes
 - 9.2 edges and upstands
 - 9.3 penetrations, pipes and vents
 - 9.4 perimeters, rainwater outlets

Performance Criteria 6

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

**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

Fire extinguishers

- 3 water, CO₂, foam, powder and their uses

Hazards

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

Health and safety control equipment

- 5 identified by the principles of protection for occupational use, types and purpose of each type, work situations and general work environment
 - 5.1 collective protective measures
 - 5.2 personal protective equipment (PPE)
 - 5.3 respiratory protective equipment (RPE)
 - 5.4 local exhaust ventilation (LEV)

Information

- 6 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, electronic data, oral/written procedures and current regulations

Legislation and official guidance

- 7 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

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

Methods of work

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method/area of work and materials used to:
 - 9.1 identify and evaluate defects in the membrane and inspect condition of sub-strata
 - 9.2 record and report findings
 - 9.3 take account of the local environment
 - 9.4 remove debris and blockages
 - 9.5 repair damaged reinforced bitumen membrane system, single ply membrane system or liquid membrane system
 - 9.6 carry out appropriate repair to edges, upstands, penetrations, pipes, vents, perimeters and rainwater outlets
 - 9.7 repair/replace damaged insulation/decking
 - 9.8 repair/replace damaged associated materials and components
 - 9.9 use hand tools, power tools and equipment
 - 9.10 work at height
 - 9.11 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with repairing membrane roofing systems

Problems

- 12 those arising from information, resources and methods of work
 - 12.1 own authority to rectify
 - 12.2 organisational reporting procedures

Programme

- 13 types of progress charts, timetables and estimated times
- 14 organisational procedures for reporting circumstances which will affect the work programme

Protect work

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

Resources

- 16 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist:
 - 16.1 relevant membrane system materials, upstands, pipes, vents, rainwater outlets and associated materials, components, fixings and fittings
 - 16.2 access equipment
 - 16.3 hand and/or power tools and equipment
- 17 methods of calculating quantity, length, area and wastage associated with the method/procedure to repair membrane roofing systems

Security procedures

- 18 site, workplace, company and operative

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Developed by	ConstructionSkills
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Status	Original
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Originating organisation	ConstructionSkills
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Relevant occupations	Roofers, Roof Tilers and Slaters
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Suite	Waterproof Membrane Roofing Systems (Construction); Building Maintenance Multi-trade Repair and Refurbishment Operations
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