COSVR685
Prepare surfaces for membrane roofing systems(SQA Unit Code-H7DA 04)

Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices and selecting materials, components and equipment for preparing surfaces for waterproofing membranes 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

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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 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

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 measure, cut, mark out, fit, position and secure

8 use and maintain hand tools, power tools and ancillary equipment

9 clean, dry and prepare surfaces as appropriate to the substrate to given working instructions for one of the following membrane roofing systems

- 9.1 reinforced bitumen
- 9.2 single ply
- 9.3 liquid applied

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, CO_2, 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 carry out remedial work to roofing backgrounds
   - 9.2 clean and dry surfaces
   - 9.3 prepare surfaces (as appropriate to the substrate) for reinforced bitumen, single ply and liquid applied membrane systems
   - 9.4 apply primers/preparation coats
   - 9.5 install separating/isolating/cushion layers
   - 9.6 install joint tapes
   - 9.7 use hand tools, power tools and equipment
   - 9.8 work at height
   - 9.9 use access equipment

10 team work and communication

11 needs of other occupations associated with preparing surfaces for 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 primers, preparation coats, separating/isolating/carrier/cushion layers, joint tapes, screed materials, associated materials, components, fixings and fittings

16.2 hand and/or power tools and equipment

17 methods of calculating quantity, length, area and wastage associated with the method/procedure to prepare surfaces for membrane roofing systems

Security procedures

18 site, workplace, company and operative

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