## Overview

This standard is about

1. interpreting information
2. adopting safe and healthy working practices
3. selecting and preparing materials and associated equipment
4. providing protection to the work area
5. assembling and setting up the spray system
6. applying coatings by airless spray equipment
7. cleaning out and maintaining the airless spray equipment
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**

- **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**

- **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**

- **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**

<table>
<thead>
<tr>
<th>Knowledge Area</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>K13</td>
<td>how to <strong>protect work</strong> from damage and the purpose of protection</td>
</tr>
<tr>
<td>K14</td>
<td>why <strong>disposal of waste</strong> should be carried out safely and how it is achieved</td>
</tr>
</tbody>
</table>

### Performance Criteria 5
**Meet the contract specification**

<table>
<thead>
<tr>
<th>Knowledge Area</th>
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</tr>
</thead>
<tbody>
<tr>
<td>K15</td>
<td>how <strong>methods of work</strong>, to meet the specification, are carried out and <strong>problems</strong> reported</td>
</tr>
<tr>
<td>K16</td>
<td>how <strong>maintenance</strong> of tools and equipment is carried out</td>
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</tbody>
</table>

### Performance Criteria 6
**Allocated time**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>K17</td>
<td>what the <strong>programme</strong> is for the work to be carried out in the estimated, allocated time and why deadlines should be kept</td>
</tr>
</tbody>
</table>
Apply coatings by the airless spray method

Additional Information

Scope/range related to performance criteria

Performance Criteria 1
1 interpretation of specifications, current regulations, risk assessments, method statements 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 and storage 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
   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 prepare, load, protect, communicate, measure, assemble, position, secure and clean
8 use and maintain hand tools, airless spray equipment and ancillary equipment
9 set up spray equipment to achieve the finish stated in the given working instructions, relating to the following
   9.1 preparation of coatings
   9.2 loading the system
   9.3 monitor and maintain supply
10 apply water-borne and/or solvent-borne coatings by airless spray to given working instructions for the following
    10.1 broad work
    10.2 linear and structural components
COSVR339 - SQA Unit Code F286 04
Apply coatings by the airless spray method
Performance Criteria 5 continued
11 check wet film thickness (as specified)
12 shut down and clean out spray equipment

Performance Criteria 6
13 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 (to include fluid injection)

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. specifications, current legislation, risk assessments, method statements, manufacturers' information and paint sprayer's instructions

Legislation and official guidance
6. this relates to the operative's responsibilities regarding first aid procedures, potential accidents and health hazards 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

Maintenance
7. operative care of hand tools, spray equipment and ancillary equipment
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 establish access requirements
8.2 check suitability of previously prepared surfaces
8.3 provide protection by sheeting, masking and removing items
8.4 assemble component parts to form paint spraying equipment
8.5 prepare coatings: single pack and two pack systems
8.6 load, operate, maintain (during use) and monitor the paint spray
   equipment
8.7 establish air-change requirements in confined areas
8.8 assemble, set up, operate and shut down spray equipment
8.9 use correct spray gun technique on broad areas, angles, linear items
   and complex structural features
8.10 plan the safeguard of operatives and the general public from
   spraying activities
8.11 troubleshoot spray equipment problems
8.12 troubleshoot coating problems
8.13 measure wet and dry film thickness with gauges
8.14 handle coatings that contain activator
8.15 shut down, clean and store equipment
8.16 identify how atmospheric conditions affect coatings and their
   application process
8.17 identify the working life of prepared materials
8.18 use access equipment
8.19 use hand tools and ancillary equipment
9 team work and communication
10 needs of other occupations associated with applying coatings by the airless
   spray method

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 spraying operations, 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 water-borne and solvent-borne coatings
15.2 masking materials: masking tape, masking paper, dust sheets, masking shield
15.3 two-pack coatings (base, activator and solvents)
15.4 protective sheeting
15.5 access equipment
15.6 hand tools, film thickness gauges, airless spray equipment and ancillary equipment
16 methods of calculating the quantity of materials required associated with the method/procedure to apply coatings by the airless spray method

Security procedures
17 site, workplace, company and operative
**Developed by**  
ConstructionSkills

**Version number**  
2

**Date approved**  
January 2012

**Indicative review date**  
January 2017

**Validity**  
Current

**Status**  
Original

**Originating organisation**  
ConstructionSkills

**Original URN**  
VR339

**Relevant occupations**  
Painters and Decorators

**Suite**  
Decorative Finishing and Industrial Painting Occupations (Construction)

**Key words**  
Painting; Coating; Water-borne; Solvent borne; Wet and dry; Film thickness