
Overview

This standard is about

- 1 interpreting information
- 2 adopting safe and healthy working practices
- 3 selecting and preparing blast cleaning equipment, materials, and associated equipment
- 4 providing protection to the work area
- 5 preparing and cleaning surfaces by abrasive blast cleaning process
- 6 maintaining the blast cleaning 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

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

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

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 assemble, prepare, load, communicate, position, profile, fill, check, fit, set-up, shut down, protect and blast
- 8 use and maintain hand tools, blast cleaning equipment and ancillary equipment
- 9 set up abrasive blast cleaning equipment
- 10 operate blast cleaning equipment to achieve the required standard as stated in the given working instructions, relating to the following
 - 10.1 preparation of abrasives
 - 10.2 loading the system
 - 10.3 monitoring and maintaining supply

Prepare surfaces by abrasive blast cleaning

Performance Criteria 5 continued

11 clean the following with two types of abrasive media

11.1 metal surfaces

11.2 concrete or stone or brick surfaces

11.3 broad areas

11.4 complex structural components

12 shut down and clean out the blast cleaning equipment

13 dismantle blast cleaning equipment

Performance Criteria 6

14 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, leakage or 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 specifications, current legislation, risk assessments, method statements, manufacturers' information and blast cleaner'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 and mechanical lifting

Maintenance

- 7 operative care of hand tools, blast cleaning 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 establish suitable atmospheric conditions
 - 8.3 establish lighting requirements
 - 8.4 mask surfaces
 - 8.5 assemble component parts
 - 8.6 prepare abrasives
 - 8.7 plan the safeguard of operatives and the general public from blast cleaning activities
 - 8.8 prepare, load, operate, maintain (during use) and monitor the abrasive blast cleaning equipment
 - 8.9 monitor blast media effect on the surface to achieve the required standard of surface preparation, profile and cleanliness
 - 8.10 remove toxic and non-toxic surface layers
 - 8.11 monitor the protective integrity of PPE/RPE during work
 - 8.12 evaluate contamination/deterioration of newly blast cleaned surfaces
 - 8.13 close-down, dismantle, clean and store equipment
 - 8.14 use access equipment
 - 8.15 use hand tools and ancillary equipment
- 9 team work and communication
- 10 needs of other occupations associated with preparing surfaces by abrasive blast cleaning

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

Prepare surfaces by abrasive blast cleaning

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 blast media
 - 15.2 lighting and signage
 - 15.3 protective sheeting and masking materials
 - 15.4 abrasive blast cleaning equipment
 - 15.5 access equipment
 - 15.6 hand tools, surface profile testing equipment and blast cleaning and ancillary equipment
- 16 methods of calculating quantity of materials associated with the method/procedure to prepare surfaces by abrasive blast cleaning

Security procedures

- 17 site, workplace, company and operative

COSVR349 – HL71 04

Prepare surfaces by abrasive blast cleaning

Developed by	ConstructionSkills
Version number	2
Date approved	January 2012
Indicative review date	January 2017
Validity	Current
Status	Original
Originating organisation	ConstructionSkills
Original URN	VR349
Relevant occupations	Painters and Decorators
Suite	Decorative Finishing and Industrial Painting Occupations (Construction)
Key words	Blast-equipment; Masking; Metal-surfaces; Concrete-surfaces; Brick-surfaces