

## Prepare and demobilise water jetting equipment

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### Overview

This standard is about setting up, preparing and demobilising water jetting equipment, selecting, preparing and using materials, components, tools and associated equipment, interpreting information, and adopting safe, healthy and environmentally responsible work practices

This standard is for people working in the occupational area of Water Jetting 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

*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

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

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

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

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

K19 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

**Scope/range****Performance Criteria 1**

1 interpretation of drawings, specifications, schedules, method statements, risk assessments, current legislation, Codes of Practice, operating instructions 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 installing and maintaining safety measures for the working area

2.4 safe use, storage and handling 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 maintain a clear and tidy work space

6 disposal of waste in accordance with current legislation

### **Performance Criteria 5**

7 demonstration of work skills to fit, position, secure, connect and adjust

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

9 carry out pre-start checks and prepare water jetting equipment to given working instructions relating to

9.1 siting of equipment

9.2 connecting hoses, lances, guns and safety equipment

9.3 power supply

9.4 water supply

10 demonstration of work skills to start, stop and control

11 operate and monitor water jetting equipment to given working instructions, relating to

11.1 tests runs

11.2 close down

11.3 clean down

12 on completion of work dismantle and decontaminate equipment and make working area safe

### **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

#### **Fire extinguishers**

3 water, CO<sub>2</sub>, foam, powder and their uses

#### **Hazards**

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

#### **Health and safety control equipment**

5 identified by the principles of prevention 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, current legislation, schedules, method statements, risk assessments, Codes of Practice, manufacturers' information and operating instructions and official guidance

## **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 and storage of materials by manual handling and mechanical lifting

## **Maintenance**

8 operative care of hand tools, portable power tools and equipment

## **Methods of work**

9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to

9.1 carry out pre-checks, set up and shut down equipment

9.2 operate equipment

9.3 monitor and assess performance of pump unit, hoses, lances, guns, nozzles and control valves

9.4 dismantle equipment

9.5 provide information for Building Information Modelling (BIM)

9.6 recognise and determine when specialist skills and knowledge are required and report accordingly

9.7 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance

9.8 identify and follow the installation quality requirements

9.9 work with, around and in close proximity to plant and machinery

9.10 direct and guide the operations and movement of plant and machinery

9.11 use hand tools, portable power tools, water jetting equipment: automated or semi-automated systems, and ancillary equipment

9.12 work at height

9.13 use access equipment

10 team work and communication

11 needs of other occupations associated with preparing and demobilising water jetting equipment



### **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 reports, 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 water, abrasives, chemicals

16.2 fuel, lubricants, coolants

16.3 pump units, hoses, lances, guns, nozzles, control valves and safety equipment

16.4 hand tools, portable power tools, water jetting equipment: automated or semi-automated systems, and ancillary equipment

17 confirm resources and materials to conform with the specification

18 methods of calculating quantity, length, area, pressure drop, back pressure, reaction force and wastage of materials associated with the method and procedure to prepare and demobilise water jetting equipment

### **Security procedures**

19 site, workplace, company, operative and vehicles

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