
Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting materials, components, plant, tools and ancillary equipment, preparing for operator or operator assisted erection and dismantling of mobile cranes and drilling, piling and demolition rigs

This standard is for people who individually, or as part of a team, erect and dismantle plant or machinery in particular cranes and rigs and can be used by operatives, supervisors and managers

You must be able to:

- P1 interpret the given operating information relating to the use of plant or machinery and confirm its relevance
- P2 organise with others the sequence in which the work is to be carried out
- P3 comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe and healthy work practices
- P4 request resources to sustain plant or machinery operations to complete the programme of work
- P5 select plant or machinery resources for the methods of work and operations to be carried out
- P6 comply with organisational procedures to minimise the risk of damage to the work and surrounding area
- P7 comply with the given contract information to carry out the work efficiently to the required specification
- P8 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

Organise with others

You need to know and understand:

- K4 **communication** of ideas between team members
- K5 organisation of **resources** in conjunction with the progress of work
- K6 the **skills** required to carry out the work

Performance Criteria 3

Safe work practices

You need to know and understand:

- K7 the level of understanding operatives must have of **information** for relevant, current **legislation, Approved Codes of Practice and official guidance** and how it is applied
- K8 how **emergencies** should be responded to and who should respond
- K9 the organisational **security procedures** for plant and/or machinery, tools, equipment and personal belongings
- K10 what the accident reporting procedures are and who is responsible for making the report
- K11 why, when and how **health and safety control equipment** should be used
- K12 how to comply with environmentally responsible work practices to meet the requirements of current **legislation and official guidance**

Performance Criteria 4

Request resources

You need to know and understand:

K13 the organisational procedures for requisitioning consumables and other **resources**

Performance Criteria 5

Selection of resources

You need to know and understand:

K14 the characteristics, quality, uses, sustainability, limitations and defects associated with plant **resources** and how defects should be rectified

K15 how the **resources** should be used and how any **problems** associated with the **resources** are reported

K16 the organisational procedures to select **resources**, why they have been developed and how they are used

K17 the **hazards** associated with the **resources** and **methods of work** and how they are overcome

Performance Criteria 6

Minimise the risk of damage

You need to know and understand:

K18 how to **protect work** from damage and the purpose of protection

K19 why **disposal of waste** should be carried out safely and how it is achieved

Performance Criteria 7

Meet the contract specification

You need to know and understand:

K20 how **methods of work**, to meet the specification, are carried out and **problems** reported

K21 how **maintenance** of plant and/or machinery, tools and equipment is carried out

Performance Criteria 8

Allocated time

You need to know and understand:

K22 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, risk assessments and manufacturers' information related to the work to be carried out

Performance Criteria 2

- 2 organisation of own work
- 3 communication with team members and other associated occupations about the operation and/or work to be carried out

Performance Criteria 3

- 4 avoidance of risk by complying with the given safety information relating to at least four of the following
 - 4.1 methods of work
 - 4.2 safe use of health and safety control equipment
 - 4.3 safe use and storage of plant
 - 4.4 safe use and storage of tools and equipment
 - 4.5 safe use of access equipment
 - 4.6 specific risks to health

Performance Criteria 4

- 5 follow organisational procedures for the requisition of consumables, materials and other resources

Performance Criteria 5

- 6 selection of resources associated with own work
 - 6.1 attachments, tools and ancillary equipment

Performance Criteria 6

- 7 protection of the work and its surrounding area from damage
- 8 prevent damage and maintain a clean work space
- 9 disposal of waste in accordance with current legislation

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Erect and dismantle plant (cranes and rigs)

Performance Criteria 7

- 10 demonstration of work skills to unload, load, site, measure, mark out, lay out, align, fit, position, connect, configure, dismantle, remove, adjust, secure, check and inspect
- 11 use and maintain hand tools, portable power tools, ancillary equipment and machinery
- 12 prepare, erect and dismantle plant to given working instructions for at least one of the following
 - 12.1 mobile crane
 - 12.2 mobile tower crane
 - 12.3 self-erect equipment
 - 12.4 drilling rig
 - 12.5 piling rig
 - 12.6 demolition rig

Performance Criteria 8

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

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Erect and dismantle plant (cranes and rigs)

Scope/range related to knowledge and understanding

Communication

- 1 discussions, sketches, electronic data and briefings

Disposal of waste

- 2 environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance

Emergencies

- 3 operative's response to situations in accordance with organisational authorisation and personal skills when involved with
 - 3.1 fires, spillages, injuries
 - 3.2 emergencies relating to occupational activities

Hazards

- 4 those identified by method of work, risk/COSHH assessments, 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 local exhaust ventilation (LEV)
 - 5.3 personal protective equipment (PPE)
 - 5.4 respiratory protective equipment (RPE)

Information

- 6 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information

Legislation, Approved Codes of Practice 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 and portable power tools, plant 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 erect and dismantle at least one of the following: mobile crane, mobile tower crane, drilling rig, piling rig, demolition rig
 - 9.2 consider ground conditions and work area
 - 9.3 fit, fasten and secure equipment
 - 9.4 dismantle and remove equipment
 - 9.5 recognise the requirements for controlling, directing and guiding the movement and operations of plant and machinery
 - 9.6 identify valid certification for maintenance, inspection and thorough examination
 - 9.7 recognise and determine when specific skills and knowledge are required and report accordingly
 - 9.8 complete function checks
 - 9.9 use hand tools, power tools, plant and equipment
 - 9.10 record and report
- 10 team work and communication
- 11 use access equipment
- 12 needs of other occupations associated with the erection and dismantling of plant

Problems

- 13 those arising from information, resources and methods of work
 - 13.1 own authority to rectify
 - 13.2 organisational reporting procedures

Programme

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

Protect work

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

Resources

17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and specialist

17.1 plant

17.2 hand and powered tools and equipment

18 identify weight, bearing, pressure, quantity, length and area associated with the method/procedure to erect and dismantle plant

Security procedures

19 site, workplace, company and operative

Skills

20 own occupation and occupations related to the work

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Erect and dismantle plant (cranes and rigs)

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