

COSPI26

Dismantle installed plant and equipment



Overview

This standard is about interpreting and implementing specifications and instructions for dismantling plant machinery and equipment on construction sites, hirer's/client's premises and selecting and modifying techniques and procedures to achieve the best possible result in the applicable conditions

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Performance criteria

You must be able to:

- P1 work safely at all times, complying with health and safety and other relevant regulations and guidelines
- P2 establish and where appropriate mark component for re-assembly
- P3 ensure that any stored energy or substances are released safely and correctly
- P4 make all isolations and disconnections to the equipment in line with approved procedures
- P5 carry out the dismantling to the agreed level using correct tools and techniques
- P6 store components for reuse in approved locations
- P7 dispose of unwanted components and substances in accordance with approved procedures
- P8 deal promptly and effectively with problems within your control and report those that cannot be solved

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Knowledge and understanding

Health and safety legislation, regulations and safe working practices and procedures

You need to know and understand:

- K1 relevant parts of the Health and Safety at Work Act, Provision and Use of Work Equipment Regulations, Control of Substances Hazardous to Health Regulations, Electricity at Work Regulations, Manual Handling Operations Regulations, Lifting Operations and Lifting Equipment Regulations, your company's health and safety policies and procedures for your workplace
- K2 use of personal protective equipment
- K3 specific health and safety issues relating to the dismantling of plant machinery and equipment, including working at height; working in confined spaces; working below ground; injuries through falling, slipping, trapping hands, fingers, limbs

Dismantling instructions and related specifications

You need to know and understand:

- K4 manufacturer's technical literature
- K5 your organisation's instructions and procedures for carrying out specific dismantling activities
- K6 job/site requirements
- K7 method statements
- K8 risk assessments
- K9 safe systems of work
- K10 Codes of Practice

Dismantling, methods and techniques

You need to know and understand:

- K11 lifting equipment, mechanical cranes, manufacturer's specialist tools and equipment, lifting accessories or dismantling equipment
- K12 hand and power tools
- K13 your organisation's relevant tools and equipment to carry out specific dismantling activities
- K14 plant machinery and equipment familiarity i.e. the machines in your organisation's fleet and the different methods and procedures required for dismantling them
- K15 the importance of dismantling plant installations in the correct sequence

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Handling equipment methods and techniques

You need to know and understand:

- K16 safe manual handling methods
- K17 use of mechanical lifting aids: mobile cranes, mechanical cranes, lifting accessories to aid in dismantling installations
- K18 safe removal procedures and use of personal protective equipment specific for the handling of dismantled components

Tool and equipment care and control procedures

You need to know and understand:

- K19 lifting equipment and lifting accessories, hand and power tool care and storage of tools and equipment in a workshop or on site, client's/hirer's premises
- K20 types of damage and defect that can occur during dismantling
 - K20.1 leaks/lubricants, fuels, coolants
 - K20.2 scoring and marking of parts and components
 - K20.3 damage/breakage
- K21 your organisation's instructions and procedures for dealing with damages and defects to plant machinery equipment, associated components and tools and equipment

Waste disposal procedures

You need to know and understand:

- K22 your organisation's procedures for disposing of waste substances (hazardous and non-hazardous)

Reporting lines and procedures

You need to know and understand:

- K23 your organisation's reporting lines and procedures associated with the installation of plant machinery and equipment

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Additional Information

Scope/range related to performance criteria

- 1 Level and extent of responsibility**
 - 1.1 for this standard the candidate's responsibility is limited to working within detailed specifications and following clearly defined procedures. In some cases the candidate will still be expected to refer to others (e.g. chargehand, supervisor) for final authorisation

- 2 Types of assets to be dismantled**
 - 2.1 associated with plant installations used in the construction and allied industries and plant hire industries; typical examples could include: goods hoists; passenger hoists; transport platforms; tower cranes; mobile cranes; mobile plant; static plant

- 3 Dismantling methods and techniques to be used**
 - 3.1 typical methods and techniques could include manual handling, use of lifting aids and accessories, use of hand and powered tools
 - 3.2 safe systems of work for the dismantling of the installation
 - 3.3 removal and storage of assemblies, sub-assemblies, parts and components, and ancillary equipment

- 4 Types of disconnections to be made**
 - 4.1 disconnections could include power supply; retaining devices (nuts, bolts, pins, clips); linkages; wire ropes; controls; levers; plug in devices; ties; anchors; supports; mast sections; cable and associated connections; pipework; safety devices

- 5 Complexity of dismantling to be carried out**
 - 5.1 there will be a significant number of parts and components to be dismantled and some securing points and connections may be difficult to access and could be complex to achieve, depending on the specific installation, typical examples could include site conditions; hirer's/client's premises; confined spaces; working at height; working below ground

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Developed by ConstructionSkills

Version number 1

Date approved September 2006

Indicative review date May 2014

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN PI26

Relevant occupations Mobile Machine Drivers and Operatives

Suite Plant Installations (Construction)

Key words Goods hoists; Passenger hoists; Transport platforms; Tower cranes; Mobile cranes; Mobile plant; Hoists; Static plant