MPQMG54
Operate plant to lift and transfer

Overview

This standard expresses the skills, knowledge and understanding required to demonstrate competence in the operation of plant designed to lift and transfer loads. The plant may be totally mobile, for example a fork lift truck, or operated from a fixed base or rails for example, such as cranes. It includes interpretation of information, adopting safe, healthy and environmentally responsible work practices, to start, lift and transfer loads and shut down the plant.

This standard can apply to any person operating plant designed to lift and transfer loads.

Performance criteria

You must be able to:

P1 interpret the given operating **information** relating to the use of plant 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 avoid **risk** and maintain safe, healthy and environmentally responsible work practices

P4 request **resources** to sustain plant operations to complete the programme of work

P5 select plant **resources** for the methods of work and operations to be carried out

P6 comply with organisational procedures to protect the work and surrounding area, prevent damage, maintain a clean work space and dispose of waste

P7 comply with the given **information** to complete the **work activity** to the required specification

Knowledge and understanding

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

K4 the methods of **communication** between team members

K5 the organisation of **resources** in conjunction with the progress of the work

K6 the skills required to do the work

K7 the level of understanding operatives must have of information on the relevant current **Legislation, Approved Codes of Conduct and official guidance**, and how it is applied

K8 how to respond to **emergencies**, and who should respond

K9 the organisational **security** procedures for plant, tools, equipment and personal belongings

K10 the organisational accident reporting procedures

K11 why, when and how **personal protective equipment** must be used

K12 how to comply with environmentally responsible work practices

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

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

K15 how the **resources** should be used and how **problems** associated with the **resources** should be 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 the **method of work**, and how they are overcome

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

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

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

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

K22 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

1 **information**: interpretation of drawings, specifications, schedules and manufacturers' information related to the work activity

2 **risk**: avoid risk by complying with the given safety information relating to at least four of the following:

2.1 methods of work

2.2 safe use of personal protective equipment

2.3 safe use and storage of plant

2.4 safe use and storage of tools and equipment

2.5 specific risks to health

2.6 safe use and storage of lifting accessories

3 **resources**: tools, materials, consumables, ancillary equipment and other resources associated with the work activity

4 **work activity**: must demonstrate work skills to:

4.1 check, adjust, communicate, start, operate, manoeuvre, position, lift, transfer, set down, shut down and secure

4.2 use, maintain and store or dispose of resources

4.3 operate plant to lift and transfer loads to given working instructions related to **one** of the following categories of plant

4.3.1 lift trucks

4.3.2 cranes

4.3.3 excavators used as a crane

4.3.4 skip handlers

4.3.5 hoists

4.3.6 container handlers

4.3.7 lorry loaders

Scope/range related to knowledge and understanding

1 **communication**: discussions, diagrams and briefings

2 **disposal of waste**: according to environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance

3 **emergencies**: individual's response to situations in accordance with organisational procedures in relation to fire, spillages, injuries and emergencies related to the work activity and working environment

4 **hazards**: those identified by the method of work, risk and other assessments, manufacturers' technical information, statutory requirements and official guidance

5 **information**: drawings or diagrams, specifications, schedules, method statements, risk assessments, manufacturers' information, current regulations governing the operation of plant and the use of equipment

6 **Legislation, Approved Codes of Conduct and official guidance**: those relating to the operatives' responsibilities regarding potential accidents and health hazards whilst working in the workplace

7 **maintenance**: operative care of plant, tools ancillary equipment and accessories

8 **methods of work**: the application of knowledge for safe and healthy work practices, procedures and skills related to the work activity, the method of work, the work location and materials used to:

8.1 identify valid certification for maintenance, inspection and examination

8.2 identify the characteristics of the lifting plant and equipment

8.3 lift and transfer people

8.4 carry out function checks for lifting and transferring

8.5 carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area

8.6 identify characteristics, type, weight, position of loads for lifting and transferring
8.7 recognise when specific skills and knowledge are required and report accordingly
8.8 secure and balance loads for lifting
8.9 lift, remove and transfer loads
8.10 position, place and set down loads
8.11 confirm load stability and security and release
8.12 attach and remove guide ropes and aids
8.13 operations outside the normal work area
8.14 shut down and secure plant
8.15 use hand tools and ancillary equipment
8.16 check, use handle and store lifting accessories
8.17 operative care of plant, tools and equipment
8.18 communicate and work with a team
8.19 appreciate the needs of other occupations associated with the operation of plant to lift and transfer loads

9 **personal protective equipment**: the types identified for the occupation, work activity and work area, their purpose, and how to use and maintain them

10 **problems**: those arising from information, resources, the method of work, circumstances that affect the work activity; those rectifiable under own authority, limits of own authority, and organisational reporting procedures

11 **protect work**: protect against damage from workplace activity, other occupations and adverse weather

12 **resources**: the types, quality and quantities of consumables, lubricants, fuels, tools, ancillary equipment and lifting accessories associated with the method of work and organisational procedures to operate plant to lift and transfer loads

13 **security procedures**: related to the site, workplace, company and operative

MPQMG54
Operate plant to lift and transfer

Developed by	MPQC
Version number	1
Date approved	February 2014
Indicative review date	December 2019
Validity	Current
Status	Original
Originating organisation	MPQC
Original URN	MPQMG54
Relevant occupations	Mineworker; Coal Mining Operatives; Forklift Truck Drivers; Plant and Machine Operatives
Suite	Mining Operations
Key words	plant; mobile; fork lift truck; crane; hoist; lorry loader; skip; counterbalance; telehandler; operate; lift; transfer