

COGPEM07 - SQA Unit Code FP3F 04

Move loads during process engineering maintenance



Overview

This unit is about your competence in moving loads using manually or power controlled equipment. You will be involved in activities such as positioning the equipment, attaching the lifting equipment, moving the load and positioning the load once it is in its final location. You will be following your organisation's safe working practices and working within the work permit procedures.

This unit is common to the Mechanical, Electrical and Instrumentation & Control disciplines.

This unit deals with the following:

1. Move loads

During this work you must take account of the relevant installation procedures and safe working practices AS THEY APPLY TO YOU.

Previous Version:

Adapted from Unit C2.7 of Process Engineering Maintenance NOS – version February 2004. This unit is a contextualised version of a unit produced by the OSC Eng Engineering Competence Standards which was originally designated ECS 4.08.

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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 position the moving equipment so that the weight of the load is evenly distributed
 - P3 attach the appropriate handling equipment securely to the load, using approved methods
 - P4 confirm that the load is secure before moving
 - P5 move the load over the selected, suitable route
 - P6 position and release the load safely in its intended final location

Knowledge and understanding

You need to know and understand:

- K1 you must have a working knowledge and understanding of what your responsibilities are in respect of Health, Safety and Environment. This should include the limits of your personal responsibility, your legal responsibility for your own health and safety and the health and safety of others
- K2 you must have a working knowledge of the relevant regulations and the safe working practices and procedures required within your work area
- K3 you must have working knowledge of the different methods and techniques of moving loads. This could be expected to include: slings and strops, trolleys (powered or manual), chain blocks, winches, rollers, hoists, jacks (hydraulic or screw)
- K4 you must have working knowledge of the appropriate lifting, moving and handling equipment used when moving loads. This could be expected to include: slings and strops, trolleys (powered or manual), chain blocks, winches, rollers, hoists, jacks (hydraulic or screw)
- K5 you must have working knowledge of what methods and techniques to be used to assess the load. This could be expected to include: manufacturers' details, equipment labels and name plates, observation
- K6 you must have working knowledge of how to complete route planning and what techniques to use taking account of the obstructions and lifting opportunities
- K7 you must have working knowledge of how to care for lifting equipment care and what control procedures are in place. This could be expected to include: storage, colour coding, location
- K8 you must have working knowledge of what reporting lines and procedures to be followed as designated by the company procedures and could involve the: asset owner, plant supervisor, permit controller, work site colleagues, OIM

Additional Information

Scope/range

- 1 The level and extent of responsibility will involve you being responsible for ensuring the equipment and work site is safe for others or yourself to work in by following defined procedures. You will be accountable for the integrity of the work site and ensuring the work is recorded in a formal manner. Authorisation for proceeding with the work will be given by authorised signatories within the Permit to Work system
- 2 The moving methods and techniques to be used will be as defined by the company and manufacturer
- 3 The type of moving, lifting and handling equipment to be used of which the following are examples:
 - 3.1 Hoists
 - 3.2 Chain blocks
 - 3.3 Winches
 - 3.4 Hydraulic jacks
- 4 The type and characteristics of the load to be moved taking into account:
 - 4.1 Weight
 - 4.2 Shape
 - 4.3 Lifting points
 - 4.4 Balance points
- 5 The final location of the load could include:
 - 5.1 Process modules
 - 5.2 Workshops
 - 5.3 Containers

Scope/range related to knowledge and understanding

The Knowledge and Understanding levels expressed indicate the minimum level of knowledge and understanding sufficient to perform your role in a manner that would normally be associated with the minimum acceptable performance of a competent person undertaking your role.

The expression "working knowledge and understanding" indicates you are able to:

- 1 Identify and apply relevant information, procedures and practices to your usual role in your expected working environments needing only occasional recourse to reference materials
- 2 Describe, in your own words, the principles underlying your working methods. This does not mean the ability to quote "Chapter and verse". Rather you must know what supporting information is

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- available, how and where to find it and from whom to seek further guidance and information confirm any additional required detail
- 3 Interpret and apply the information obtained to your role, your working practice and in your expected working environment

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Suite Process Engineering Maintenance

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