# COGPEM33 - SQA Unit Code FP6Y 04

Deal with variations and defects in mechanical plant and equipment

## Overview

This unit is about your competence in identifying, assessing and dealing with variations and defects in mechanical products or assets. The reporting of recommendations to the appropriate people will be required. You will be following your organisation's safe working practices at all times and working within the work permit procedures.

This unit deals with the following:
1 Deal with variations and defects in mechanical plant and equipment

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

**Previous Version:**

This unit is a contextualised version of a unit produced by the OSC Eng Engineering Competence Standards which was Originally Designated ECS 5.07

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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 identify defects with regard to the product or asset specification
- P3 assess the defects and determine action required to return the products and assets to specified condition
- P4 report recommendations for action to the appropriate people promptly and in accordance with organisational procedures
- P5 record details of defects in accordance with quality assurance and control systems and procedures

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## 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 a working knowledge and understanding of engineering drawings and their related specifications. This should include the specifications to which you will be expected to work, including technical drawings (component, assembly, general arrangements, isometrics, 1st and 3rd angle projections), method statements, product worksheets and tolerances

K4 you must have a working knowledge and understanding of the identification of defects in products and assets. This could include: observation and using relevant senses, fault reports, maintenance logs, operations logs

K5 you must have a working knowledge and understanding of the methods of dealing with defects as defined by your company procedures

K6 you must have a working knowledge and understanding of the methods of dealing with defects and variations and what factors determine the actions to be taken, and why it is important to maintain records of the checks made and the assessments that result from those checks, what information should be entered on those records and where they should be kept

K7 you must have a working knowledge and understanding of the quality control systems and documentation procedures that are specified by your company

K8 you must have a working knowledge and understanding of your responsibilities with regard to the reporting lines and procedures in your working environment

## Additional Information

### Scope/range related to performance criteria

1 The level and extent of responsibility will involve you being responsible for ensuring the maintenance procedures are carried out safely by following company defined procedures. You will be accountable for the integrity of the work and ensuring the work is recorded in a formal manner. Authorisation for proceeding with the work will be given by authorized signatories within the PTW system

2 The assets or equipment to be maintained could involve more than 1 technology and/or involve a significant number of fragile/valued components. Typical assets could include:

- 2.1 Prime mover
- 2.2 Fluid distribution systems
- 2.3 Transmission system and components

and may include:

- 2.4 Working within confined spaces
- 2.5 Working in hazardous areas
- 2.6 Working at height/over water

3 The type and complexity of defects will vary from severe damage with the potential for immediate failure to minor damage

### 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 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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