

# COGN434

## Deal with variations and defects in electrical plant and equipment



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### Overview

This unit covers the competence required to identify, assess and deal with variations and defects in electrical 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 electrical 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:

Adapted from Unit N434 of Nuclear Decommissioning NOS – version October 2005. This unit is a contextualised version of a unit produced by the OSC Eng Engineering Competence Standards which was originally designated ECS 5.07. Cogent reference is E3.2.

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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 your responsibilities in respect of Health, Safety and Environment (including the limits of your personal responsibility; your legal responsibility for your own health and safety and the health and safety of others)
- K2 the relevant regulations and the safe working practices and procedures required within your work area
- K3 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 the identification of defects in products and assets (including observation and using relevant senses; fault reports; maintenance logs; operations logs)
- K5 methods of dealing with defects as defined by your company procedures
- K6 methods of dealing with defects and variations (including what factors determine the actions to be taken; 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 quality control systems and documentation procedures that are specified by your company
- K8 the reporting lines and procedures in your working environment

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### Additional Information

#### Glossary

The following terms have a specific meaning in this unit:

#### **Assets or equipment to be maintained**

- Rotating equipment and tools
- Protection methods
- Electrical distribution systems

#### **Type and complexity of defects**

Those defects which vary from severe damage with the potential for immediate failure to those with minor damage

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**Relevant occupations** Professional Occupations; Engineering Professionals; Engineering and manufacturing technology; Engineering

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**Suite** Nuclear Decommissioning

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