



**Australian Government**

# **UEECD0001 Analyse materials for suitability in electrical equipment**

**Release: 1**

# UEECD0001 Analyse materials for suitability in electrical equipment

## Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

## Application

This unit involves the skills and knowledge required to analyse materials for suitability in electrical equipment.

It includes preparing and analysing materials. It also includes documenting and reporting analysis.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

## Pre-requisite Unit

UEECD0002 Analyse static and dynamic parameters of electrical equipment

## Competency Field

Cross Discipline

## Unit Sector

Electrotechnology

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

#### 1 Prepare to analyse materials

### PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1 Work health and safety (WHS)/occupational health and safety (OHS) processes and workplace procedures for a given work area are identified, obtained and applied
- 1.2 WHS/OHS risk control measures and workplace procedures in preparation for the work are followed

- 1.3 Machine analysis is determined from performance specifications and/or reports and in consultation with relevant person/s
      - 1.4 Activities are planned in accordance with workplace procedures for timelines in consultation with others involved
      - 1.5 Strategies are identified, developed and implemented
- 2 Apply and analyse materials**
  - 2.1 WHS/OHS risk control work measures and workplace procedures for carrying out the work are followed
  - 2.2 Materials are applied to developing machine parts
  - 2.3 Characteristics, specifications and performance requirements of the materials are obtained in accordance with workplace procedures
  - 2.4 Analysis of materials is carried out in accordance with workplace procedures
  - 2.5 Unplanned events are responded to in accordance with WHS/OHS requirements and workplace procedures
  - 2.6 Quality of work is monitored in accordance with workplace procedures and/or relevant industry standards
- 3 Document and report the results of analysis**
  - 3.1 Solutions to materials analysis are tested and modified as required
  - 3.2 Analysis is reported to appropriate person/s to establish action to be taken based on findings
  - 3.3 Justification and instruction for actions are documented in work records in accordance with relevant industry standards

## Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Analysis must include the following:

- at least two different types of materials

## Unit Mapping Information

This unit replaces and is equivalent to UEENEEE163A Analyse materials for suitability in electrical equipment.

## Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>