



Australian Government

UEEEL0074 Wind electrical coils

Release: 1

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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 set up coil former and winding machine/s to wind electrical coils for static and rotating electrical machines.

It includes working safely, using hand and power tools, following technical instructions and set procedures, recording work activities and winding electrical coils.

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

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

Competency Field

Electrical

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to wind electrical coils

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) requirements and workplace procedures for a given work area are identified and understood

- 1.2 Existing WHS/OHS risk control measures for work preparation are followed
 - 1.3 Work instructions are identified, obtained and applied
 - 1.4 Advice is sought from the work supervisor to ensure work is coordinated effectively with others
 - 1.5 Materials required for work are obtained in accordance with work instructions and workplace procedures
 - 1.6 Tools, equipment and testing devices needed to carry out electrical work are obtained and checked for correct operation and safety
- 2 **Wind electrical coils**
 - 2.1 Existing WHS/OHS risk control measures for winding electrical coils work are followed
 - 2.2 Winding machines are checked and isolated in accordance with WHS/OHS requirements and workplace procedures
 - 2.3 Winding wire and insulation are selected in accordance with work instructions and workplace procedures
 - 2.4 Winding formers and machine are set up in accordance with workplace instructions
 - 2.5 Unplanned situations are responded to in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
 - 2.6 Routine quality checks are conducted to ensure electrical coils are correctly wound with correct wire, number of turns and shape in accordance with work instructions
 - 2.7 Coil work is completed within timeframe, environment and workplace conditions
- 3 **Complete workplace report**
 - 3.1 WHS/OHS workplace completion risk control measures are followed
 - 3.2 Workplace report, forms/data sheets are completed accurately in accordance with workplace procedures

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.

Winding electrical coils must include the following:

- winding at least four different types of electrical coils in an environment designed specifically for the purpose

Unit Mapping Information

This unit replaces and is equivalent to UEENEEG150A Wind electrical coils.

Links

Companion Volume implementation guides are found in VETNet - -

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