



Australian Government

UEEEL0056 Place and connect electrical coils

Release: 1

UEEEL0056 Place and connect electrical coils

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 insulate, place and connect electrical coils in small armature/stators, transformers and solenoid equipped devices.

It includes working safely, using tools, placing and connecting conductors, following technical instructions and workplace procedures, and completing work reports.

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

UEEEL0074 Wind electrical coils

and

UEECD0043 Solve problems in direct current circuits

or

UEECD0044 Solve problems in multiple path circuits

UEECD0046 Solve problems in single path circuits

Competency Field

Electrical

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Prepare to place and connect electrical coils

- 1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for a given work area are identified and applied
- 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 the work is coordinated effectively with others
- 1.5 Materials required for the work are obtained in accordance with workplace routines and procedures
- 1.6 Tools, equipment and testing devices needed to carry out work are obtained and checked for correct operation and safety

2 Place and connect electrical coil

- 2.1 Existing WHS/OHS risk control work measures are followed
- 2.2 Machines/equipment are checked and isolated in accordance with WHS/OHS requirements and workplace procedures
- 2.3 Coils and insulation are selected in accordance with work instructions and workplace procedures
- 2.4 Insulation is cut and applied in accordance with work instructions and workplace procedures
- 2.5 Coils are placed in accordance with work instructions and workplace procedures
- 2.6 Coil ends are prepared and connections made in accordance with work instructions and workplace procedures
- 2.7 Unplanned situations are responded to in accordance with workplace procedures in a manner that minimises risk to personnel and equipment

- 2.8** Routine quality checks are conducted to ensure electrical coils are correctly placed and connected in accordance with work instructions
- 2.9** Electrical coil work is completed within timeframe, environment and workplace conditions
- 3 Complete workplace report**
- 3.1** WHS/OHS work 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.

placing and connecting coils must be completed in an environment designed specifically for the purpose and include at least two of the following:

- armatures
- stators
- transformers
- solenoid equipped devices

Unit Mapping Information

This unit replaces and is equivalent to UEENEEG151A Place and connect electrical coils.

Links

Companion Volume implementation guides are found in VETNet - -

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