



Australian Government

UEERE0082 Maintain renewable energy (RE) apparatus

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 maintain renewable energy (RE) apparatus.

It includes preparing to maintain RE apparatus, completing routine maintenance of RE apparatus, completing and reporting on maintenance activities.

The skills and knowledge described in this unit require a licence or permit to practice in the workplace where work is carried out on electrical installations which are designed to operate at voltages greater than 50 volt (V) alternating current (a.c.) or 120 V direct current (d.c).

Competency development activities in this unit are subject to regulations directly related to licensing. Where a licence or permit to practice is not held, a relevant contract of training, such as an Australian Apprenticeship, is required.

Additional and/or other conditions may apply in some jurisdictions subject to regulations related to electrical work. Practice in the workplace and during training is also subject to work health and safety (WHS)/occupational health and safety (OHS) regulations.

Note: Those holding an 'Unrestricted Electrician's Licence' or equivalent issued in an Australian state or territory meet the prerequisite requirements of this unit.

Pre-requisite Unit

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0044 Solve problems in multiple path circuits

UEECD0046 Solve problems in single path circuits

and

UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits

or

UEEEL0023 Terminate cables, cords and accessories for low voltage circuits

Competency Field

Renewable Energy

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

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| 1 Prepare to maintain RE apparatus | <p>1.1 Work health and safety (WHS)/occupational health and safety (OHS) processes and procedures for relevant work area are identified and applied in accordance with workplace procedures</p> <p>1.2 Maintenance schedule/s, specifications, drawings, plans, job requirements and material lists are obtained, interpreted, and applied in accordance with workplace procedures</p> <p>1.3 Work is prioritised and coordinated with relevant site personnel in accordance with workplace procedures</p> <p>1.4 Competencies required to conduct work are determined from job specifications and/or consultations with appropriate person/s</p> <p>1.5 Materials, tools, apparatus and testing devices required for the work are identified and accessed in accordance with workplace procedures</p> <p>1.6 Need to test or measure live electrical work is determined in accordance with WHS/OHS, regulatory and licencing requirements</p> |
| 2 Maintain RE apparatus | <p>2.1 Circuits/apparatus are confirmed as isolated, and other safety measures implemented, in accordance with WHS/OHS requirements and workplace procedures</p> <p>2.2 Visual inspection of site and equipment is conducted and any hazards and/or anomalies requiring attention noted</p> <p>2.3 System performance monitoring is completed and recorded in accordance with technical standards and workplace procedures</p> <p>2.4 Routine maintenance is conducted in accordance with</p> |

- schedule, technical standards and workplace procedures
- 2.5 Repairs are identified and completed in accordance with technical standards
 - 2.6 Maintenance quality checks are conducted in accordance with job specifications, technical standards, regulatory requirements and/or workplace procedures
 - 2.7 System is reenergised in accordance with technical standards and workplace procedures
- 3 Complete and report maintenance activities**
- 3.1 Work area is cleaned and made safe in accordance with workplace procedures
 - 3.2 Completion of work is documented and appropriate person/s notified 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.

Repairs include the following:

- RE apparatus is limited to replacement or repair of components in which the fault has been previously determined.

Carrying out repairs to RE apparatus must include the following:

- two different RE apparatus in which three different types of components are faulty, one of which is mechanical.

Unit Mapping Information

New unit

Links

Companion Volume Implementation Guides are found in VETNet -

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