



Australian Government

UEERE0074 Inspect off-grid renewable energy systems

Release: 1

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Modification History

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

Application

This unit involves the skills and knowledge required to conduct compliance inspection of off-grid renewable energy systems.

It includes reviewing relevant industry/regulatory standards that must be complied with, preparing inspection checklist, conducting compliance inspection, and actioning and reporting on findings.

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.

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.

Pre-requisite Unit

UEEEL0039 Design, install and verify compliance and functionality of general electrical installations

Competency Field

Renewable Energy

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Prepare to conduct off-grid system compliance inspection

- 1.1** WHS/OHS processes and procedures for work are identified and applied in accordance with workplace procedures
- 1.2** Installation documentation and relevant industry/regulatory standards are reviewed and applied
- 1.3** Inspection checklists are prepared in accordance with relevant industry standards and regulatory requirements
- 1.4** Appropriate person/s is consulted to ensure the work is coordinated effectively with others
- 1.5** Tools, equipment and testing devices to verify compliance are obtained and checked for operation and safety in accordance with workplace procedures
- 1.6** Need to test and measure live electrical work is determined in accordance with WHS/OHS requirements and workplace procedures

2 Conduct compliance inspection of off-grid renewable energy system

- 2.1** Circuits/machines/plant are checked and isolated in accordance with WHS/OHS requirements and workplace procedures
- 2.2** Inspection of the system is conducted against checklist in accordance with relevant industry standards and regulatory requirements
- 2.3** Electrical equipment compliance with relevant safety requirements and industry standards is obtained from appropriate person/s
- 2.4** Areas of compliance are verified, and non-compliance identified in accordance with relevant industry standards and regulatory requirements

3 Act and report on off-grid system inspection findings

- 3.1** Inspection findings are documented in accordance with relevant industry standards and regulatory requirements
- 3.2** Actions for non-compliance within the scope of inspection responsibilities are determined in accordance with relevant industry standards and regulatory requirements
- 3.3** Inspection report is completed and issued to appropriate person/s in accordance with relevant industry standards

and regulatory requirements

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 Electrotechnology Training Package Companion Volume Implementation Guide.

Inspection of off-grid renewable energy systems must include:

- two different types of systems
- energy generation equipment
- energy storage equipment
- power conversion equipment.

Unit Mapping Information

This is a new unit.

Links

Companion Volume Implementation Guides are found in VETNet -

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