



Australian Government

UEPMNT352 Test and commission electronic electrical equipment

Release: 1

UEPMNT352 Test and commission electronic electrical equipment

Modification History

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

Application

This unit involves the skills and knowledge required to conduct testing and commissioning of electronic electrical equipment.

Commissioning and testing is the process of ensuring all systems and components of a power generation facility's electronic electrical equipment are meeting operational requirements.

Competency in this unit requires the ability to plan work, test electronic electrical equipment wiring systems, testing electronic electrical equipment, commissioning electronic electrical equipment and to report on all completed work tasks. Individuals will, in general, work under supervision in an electrical, electronic and/or mechanical equipment repair workshop or on site.

Power generation maintenance personnel are typically trained and authorised to receive permits to work.

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

Note: Workplace practice

The application of the skills and knowledge described in this unit of competency may require a licence or training permit to practice in the workplace, where work is carried out on gas and electrical installations. Additional and/or other conditions may apply under state and territory legislative and regulatory licensing requirements.

Pre-requisite Unit

UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits

UEENEEE102A Fabricate, assemble and dismantle utilities industry components

UEENEEE104A Solve problems in D.C. circuits

UEENEEE105A Fix and secure electrotechnology equipment

UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

UEENEEG006A Solve problems in single and three phase low voltage machines

UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits

UEENEEG063A Arrange circuits, control and protection for general electrical installations

UEENEEG101A Solve problems in electromagnetic devices and related circuits

UEENEEG102A Solve problems in low voltage A.C. circuits

UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

Competency Field

Maintenance

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan and prepare for work

PERFORMANCE CRITERIA

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

- 1.1** Requirements including scope of work and assigned roles are identified and confirmed with appropriate personnel or by site inspection, in accordance with workplace procedures
- 1.2** Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations, legislative requirements, industry standards, codes of practice, manufacturers' specifications, environmental obligations and workplace procedures are reviewed in preparation for work
- 1.3** Resources are obtained and inspected for compliance with job specification
- 1.4** Relevant plans, drawings and manuals are selected and used, in accordance with workplace procedures
- 1.5** Correct materials and components for work are obtained and inspected, in accordance with workplace procedures, for compliance with job specification
- 1.6** Work is planned, sequenced and prioritised, in accordance with workplace procedures
- 1.7** Potential hazards are identified, and risk control measures are selected and implemented, in accordance

- with workplace procedures
- 1.8** Work area is prepared, in accordance with workplace procedures
- 2 Test electronic electrical wiring systems**
- 2.1** Isolations for work are confirmed, in accordance with workplace procedures
- 2.2** Electronic electrical wiring systems are tested using appropriate plans, drawings and manuals, in accordance with workplace procedures
- 2.3** Electronic electrical wiring systems, including enclosures and/or supports, are inspected, in accordance with workplace procedures, prior to testing to ensure absence of damage, defects or deterioration
- 2.4** Fixed electronic electrical wiring is tested, as appropriate, and results are documented to confirm compliance with job specification
- 3 Test electronic electrical equipment**
- 3.1** Isolations are confirmed, in accordance with workplace procedures site requirements
- 3.2** Electronic electrical equipment is tested using appropriate plans, drawings and manuals, in accordance with workplace procedures
- 3.3** Test conditions are confirmed and equipment is inspected, in accordance with workplace procedures, to ensure absence of any damage, defects or deterioration
- 3.4** Electronic electrical equipment is tested using appropriate testing techniques, in accordance with workplace procedures
- 3.5** Electronic electrical equipment test results are documented to confirm compliance with job specification
- 4 Commission electronic electrical equipment**
- 4.1** Isolations are confirmed, where appropriate, in accordance with workplace procedures and site requirements
- 4.2** Electronic electrical equipment is commissioned using appropriate plans, drawings and manuals, in accordance with workplace procedures
- 4.3** Electronic electrical equipment is set up, in accordance with workplace procedures, operational requirements

and manufacturers' specifications

4.4 Testing and monitoring procedures are followed, and results are documented to ensure equipment operates within manufacturers' specifications

4.5 Final inspection is carried out, in accordance with workplace procedures

5 Complete work

5.1 Work is completed and appropriate personnel are notified, in accordance with workplace procedures

5.2 Work area is cleared of waste, cleaned, restored and secured in accordance with workplace procedures

5.3 Tools and equipment are cleaned, maintained and stored, in accordance with workplace procedures

5.4 Work completion details are finalised, 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPMNT352B Test and commission electronic electrical equipment.

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>