



Australian Government

UEPMNT422 Conduct performance testing on process plant and equipment

Release: 2

UEPMNT422 Conduct performance testing on process plant and equipment

Modification History

Release 2. Minor release to update superseded pre-requisite units.

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 performance testing on process plant and equipment.

Performance testing is used to determine how power generation plant and equipment performs in terms of responsiveness and stability under specified workloads. It can also serve to investigate, measure, validate or verify other attributes such as scalability, reliability and resource usage.

Competency in this unit requires the ability to plan and prepare for performance tests, undertake performance tests and collect data, evaluate and analyse information and complete documentation. Individuals will, in general, work as a maintenance operative in a power generation facility.

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

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0020 Fix and secure electrotechnology equipment

UEECD0043 Solve problems in direct current circuits

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

UEEEL0003 Arrange circuits, control and protection for general electrical installations

UEEEL0011 Evaluate performance of low voltage electrical apparatus

UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits

- UEEEL0020 Solve problems in low voltage A.C. circuits
- UEEEL0021 Solve problems in magnetic and electromagnetic devices
- UEEEL0023 Terminate cables, cords and accessories for low voltage circuits
- UEEEL0024 Test and connect alternating current (a.c.) rotating machines
- UEEEL0025 Test and connect transformers
- UEPMNT351 Test and commission electrical equipment

Competency Field

Maintenance

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan and prepare for performance test

PERFORMANCE CRITERIA

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

- 1.1 Work request is received and appropriate method of testing is determined, in accordance with legislative requirements, industry standards and workplace procedures
- 1.2 Safety and process plant issues are identified, in accordance with workplace procedures
- 1.3 Specialist assistance and personnel are arranged, in accordance with workplace procedures
- 1.4 Tools and equipment are identified and acquired, in accordance with workplace procedures
- 1.5 Test equipment is calibrated as specified in industry standards, manufacturers' specifications and workplace procedures
- 1.6 Performance test requirements are determined and planned, in accordance with manufacturers' specifications and workplace procedures

workplace procedures

- 4.2 Reports and documentation are produced, in accordance with workplace procedures
- 4.3 Reports and documentation are presented to appropriate personnel, in accordance with workplace procedures, to facilitate implementation of recommendations

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 UEPMNT422B Conduct performance testing on process plant and equipment

Links

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