



**Australian Government**

# **UEPMNT366 Maintain power plant inverter systems**

**Release: 2**

# UEPMNT366 Maintain power plant inverter systems

## 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**Release 2.** Minor release to update superseded pre-requisite units.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 undertake the maintenance of power generation plant inverter systems.

Maintenance includes the regular monitoring, inspection and verification of the safe and efficient operation of a power generation facility's inverter system.

Competency in this unit requires the ability to plan work, carry out inverter system maintenance and complete all work tasks. Individuals will, in general, work under supervision in an electrical, electronic and/or mechanical equipment repair workshop or on site.

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

### Note: Workplace practices

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

## 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, in accordance with workplace procedures
- 1.8 Work area is prepared, in accordance with workplace

- procedures
- 2 Carry out inverter system maintenance**
- 2.1** Isolations are confirmed, where appropriate, in accordance with workplace procedures and site requirements
- 2.2** Inverter system is maintained, in accordance with workplace procedures, plans, drawings and manuals
- 2.3** Reset or adjustment is carried out, in accordance with workplace procedures, to ensure inverter system operates within requirements
- 2.4** Maintenance, of inverter system is carried out, in accordance with workplace procedures, without damage or loss to other equipment
- 2.5** Final inspection is carried out, in accordance with workplace procedures
- 3 Complete work**
- 3.1** Work is completed and appropriate personnel are notified, in accordance with workplace requirements
- 3.2** Work area is cleared of waste, cleaned, restored and secured in accordance with workplace procedures
- 3.3** Tools and equipment are cleaned, maintained and stored, in accordance with workplace procedures
- 3.4** 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 UEPMNT366A Maintain power plant inverter systems.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>