



Australian Government

UEPMNT429 Modify electronic instrumentation equipment

Release: 1

UEPMNT429 Modify electronic instrumentation 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 modifications of electronic equipment including, but not limited to, process control instrumentation, power grid energy controls, supervisory instrumentation and security equipment including Closed Circuit Television (CCTV).

Modifications can include any changes which may alter electronic instrumentation equipment which is used to measure, monitor, automate and control processes and machinery in a power generation facility from the manufacturers' specifications.

Competency in this unit requires the ability to plan work, carry out electronic instrumentation equipment modifications 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

UEPMNT356 Maintain instrumentation equipment

UEENEEI001B Install and set up transducers and sensing devices

UEENEEE102A Fabricate, assemble and dismantle utilities industry components

UEENEEE105A Fix and secure electrotechnology equipment

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

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 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 and site procedures

2 Carry out electronic instrumentation

- 2.1** Isolations are confirmed, where appropriate, in

equipment modifications	accordance with workplace procedures
2.2	Electronic instrumentation equipment is modified, in accordance with workplace procedures, using appropriate plans, drawings and manuals
2.3	Modifications are carried out, in accordance with workplace procedures, without damage or loss to equipment
2.4	Modified equipment is set up, in accordance with workplace procedures, to suit operational requirements and manufacturers' specifications
2.5	Final inspection is performed, in accordance with workplace procedures
3 Complete work	
3.1	Work is completed and appropriate personnel are notified, in accordance with workplace procedures
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 UEPMNT429B Modify electronic instrumentation equipment.

Links

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