



Australian Government

UEPOPS148 Operate and monitor local grid operations control room

Release: 1

UEPOPS148 Operate and monitor local grid operations control room

Modification History

Release 1. This is the first release of this unit of competency in the Electricity Supply Industry - Generation Sector Training Package.

Application

This unit involves the skills and knowledge required to operate and monitor a grid operations control room in the electricity supply industry generation sector. This unit applies to proprietary grid infrastructure which may or may not be connected to the National grid.

Routine work can include undertaking activities such as the operation of generation plant systems, operating and monitoring maintenance on equipment.

Competency in this unit requires the ability to carry out routine work activities in an electricity supply generation environment. Individuals will work, under supervision, as an operator in an electricity supply generation facility.

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

Pre-requisite Unit

None

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to operate and

PERFORMANCE CRITERIA

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

1.1 Work requirements for grid control room systems are identified from relevant personnel and documentation,

monitor work activities	in accordance with permit and workplace procedures
1.2	Initial check of grid control room systems to ensure work and requirements are in accordance with workplace procedures
1.3	Work Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements, and workplace procedures are identified, applied and monitored
1.4	Tools, equipment and Personnel Protective Equipment (PPE) are identified and checked, in accordance with workplace procedures
1.5	Relevant personnel are consulted, and work is coordinated on site, in accordance with workplace procedures
1.6	Resources and materials are confirmed, in accordance with workplace procedures
1.7	Schedule of work, including Safety Data Sheets (SDS), manual handling techniques and PPE are confirmed, in accordance with workplace procedures
2 Carry out operate and monitor activities	
2.1	Hazards are identified and risk controls are implemented, in accordance with workplace procedures
2.2	Schedule of work for grid control room is followed and work activities are completed, in accordance with workplace procedures
2.3	Work practices for grid control room operations and monitoring are applied, in accordance with workplace procedures
2.4	Alarm response and coordination from relevant personnel for unplanned events are applied, in accordance with workplace procedures
2.5	Response and coordination from relevant personnel for unplanned events are undertaken, in accordance with workplace procedures
2.6	Continuous checks on plant systems to ensure work and requirements are completed in accordance with

- workplace procedures
- 3 Complete operate and monitor activities**
- 3.1** Final checks of systems to ensure work and requirements are completed in accordance with workplace procedures
 - 3.2** Relevant personnel are notified of work completion, in accordance with workplace procedures
 - 3.3** Tools, equipment, resources, and materials are cleaned, checked and returned to storage, in accordance with workplace procedures
 - 3.4** Work area is cleaned and made safe, in accordance with workplace procedures
 - 3.5** Records are updated, 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 Electricity Supply Industry - Generation Sector Training Package Companion Volume Implementation Guide.

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=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>

Assessment Requirements for UEPOPS148 Operate and monitor local grid operations control room

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two separate occasions and include:

- applying alarm response including:
 - validation
 - priority and
 - escalations
- applying Work Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - hazard identification
 - personal protective equipment (PPE)
 - risk control measures and
 - safe working practices
- checking work results
- communicating with personnel
- complying with regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements'
- dealing with unplanned events
- interpreting manufactures' specifications and manuals
- managing screen based equipment including the full range of application.
- operating and monitoring grid control systems
- preparing to undertake routine work activities
- using access permits
- using tools, resources and materials.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- access permits
- alarm response including:
 - validation
 - priority and
 - escalations
- electrical supply industry routine tasks
- geographic impact on grid infrastructure
- jurisdictional operating protocols
- operate and monitor grid control systems
- potential hazards
- manuals
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements'
- remote telemetry and data acquisition
- Supervisory Control and Data Acquisition (SCADA)
- types of electricity generation plants
- types of grid infrastructure
- WHS/OHS legislated requirements including:
 - emergency procedures
 - hazard identification
 - personal protective equipment
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment

(PPE) currently used in industry

- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals

Links

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