



Australian Government

UEPOPS420 Coordinate network/system

Release: 1

UEPOPS420 Coordinate network/system

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 for the coordination of a network and/or system. Networks and/or systems may be interconnected, remote or isolated.

Power generation operators will typically manage varying levels of network and/or system complexity across facilities, as well as the networks and/or systems that exist within an individual facility's plant and equipment.

Competency in this unit requires the ability to plan network and/or system operations, coordinate network and/or system, respond to network and/or system faults or incidents and complete all documentation. Individuals will, in general, work as an operator with coordination responsibilities in network and/or system control in a power generation facility.

Power generation plant operators are typically trained and authorised to isolate, prepare plant and issue 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 may require a licence or training permit to practice in the workplace where work is carried out on gas and electrical installations. Additional conditions may apply under state and territory legislative and regulatory licensing requirements.

Pre-requisite Unit

There are no prerequisite units.

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Plan and prepare network/system operations

- 1.1** Information and documentation is identified, assessed and evaluated, in accordance with workplace procedures and network and/or system requirements
- 1.2** Network and/or system and associated equipment operational prerequisites are determined, in accordance with workplace procedures
- 1.3** Work priorities are determined to suit network and/or system circumstances, in accordance with workplace procedures
- 1.4** Network and/or system limitations and performance are identified, in accordance with workplace procedures

2 Coordinate network/system

- 2.1** Network and/or system is operated, in accordance with workplace procedures
- 2.2** Network and/or system demand is monitored, in accordance with workplace procedures to ensure the quality of supply and to maintain stability and system integrity
- 2.3** Network and/or system load shedding sequence and priorities are monitored, in accordance with workplace procedures
- 2.4** Network and/or system corrective actions to rectify deviations are implemented, in accordance with workplace procedures, following analysis of data
- 2.5** Resources to meet network and/or system requirements are identified and coordinated, in accordance with workplace procedures
- 2.6** Network and/or system operations are carried out, in accordance with workplace procedures and in consultation with team members

3 Respond to network/system faults

- 3.1** Causes of abnormal network and/or system operating conditions are identified, in accordance with workplace procedures and technical and operational information

- 3.2 Operation of protection for network and/or system is identified and assessed, in accordance with workplace procedures, to evaluate the nature and cause of fault conditions
 - 3.3 Communication is established with key stakeholders, in accordance with workplace procedures to identify the nature and source of network system interference
 - 3.4 Corrective action is taken, in accordance with workplace procedures
 - 3.5 Network and/or system integrity and safety are maintained, in accordance with workplace procedures, through consultation with personnel and reference to technical and operational documentation including contingency plans
- 4 Complete documentation**
- 4.1 Network and/or system problems, movements and status is reported, in accordance with workplace procedures
 - 4.2 Documentation is 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS420B Coordinate the network/system.

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 UEPOPS420 Coordinate network/system

Modification History

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Performance Evidence

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

- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - risk control measures
 - safe working practices
- communicating with external agencies
- communicating with personnel
- completing documentation using recording procedures
- coordinating and controlling network and/or system to maintain power generating plant integrity
- coordinating personnel
- diagnosing continuity of supply for optimum efficiency
- identifying power generating plant status
- implementing legislation, industry standards, codes of practice and regulations
- interpreting plant drawings, manufacturers' specifications and manuals
- planning and preparing network and/or system operations
- recognising and responding to network system faults and abnormal operating conditions
- selecting appropriate load shedding
- using contingency plans

Knowledge Evidence

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

- coordination of a network and/or system operation
- legislation, industry standards, codes of practice and regulations
- network and/or system faults and abnormal system operating condition

- network and/or system types and characteristics
- plant drawings, manufacturers' specifications and manuals
- power generating plant and equipment, its location and operating parameters
- power generating plant status
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:
 - emergency procedures
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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 currently used in industry
- applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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