



Australian Government

UEPOPS053 Manage operational crisis to maintain or restore power system integrity

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEP Electricity Supply Industry - Generation Sector Training Package Release 2.0.

Application

This unit involves the skills and knowledge required to manage a crisis of a magnitude which affects the integrity and effectiveness of the power generation facility's system.

A crisis is defined as a significant threat to power generation operations that can have negative consequences if not handled with care. The risk management system ensures that the power generation facility identifies, assesses and prioritises risks and manages the application of resources to monitor and control the impact of potentially hazardous events.

Competency in this unit requires the ability to identify a crisis, establish a contingency plan, establish communications, manage crisis documents and review the crisis and response. Individuals will, in general, work as an operator with responsibility for risk management, in a power generation facility.

Power generation plant operators are 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.

Pre-requisite Unit

There are no prerequisite units

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Identify crisis

PERFORMANCE CRITERIA

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

- 1.1** Operational crisis and implications are identified and assessed in accordance with risk management system and workplace procedures
- 1.2** Work health and safety (WHS)/occupational health and safety (OHS) regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, environmental requirements and workplace procedures are identified, applied and monitored
- 1.3** Secondary threats from crisis events are identified and monitored in accordance with risk management system and workplace procedures
- 1.4** Network system configuration or power generation capability is evaluated in accordance with risk management system and workplace procedures
- 1.5** Data determining network system and power generation status is assessed and evaluated in accordance with risk management system and workplace procedures
- 1.6** External information is collated, assessed and managed in accordance with risk management system and workplace procedures
- 1.7** Probable cause of crisis is identified from available information and resources in accordance with risk management system and workplace procedures
- 1.8** Crisis team is activated and individual roles and responsibilities identified and managed in accordance with risk management system and workplace procedures

2 Implement contingency plan

- 2.1** Contingency and emergency response plans are implemented using risk management system documentation and workplace procedures
- 2.2** Additional resources are identified in accordance with risk management system and workplace procedures

- 2.3 Alternate strategies to cater for crisis variations are implemented in consultation with key stakeholders in accordance with risk management system and workplace procedures
- 3 Implement communication**
 - 3.1 Communication links with external authorities are established and implemented to ensure coordination of resources in accordance with risk management system and workplace procedures
 - 3.2 Communication with key stakeholders is established and implemented to disseminate information in accordance with risk management system and workplace procedures
 - 3.3 Customers are assisted in accordance with risk management system policies and workplace procedures
- 4 Manage crisis**
 - 4.1 Crisis response is managed in accordance with risk management system and workplace procedures
 - 4.2 Crisis events and responses are prioritised according to related risk and the needs of key stakeholders in accordance with risk management system and workplace procedures
 - 4.3 Impact of secondary threats are managed in accordance with risk management system and workplace procedures
 - 4.4 Contingency and emergency response plans are actioned and managed in accordance with risk management system and workplace procedures
 - 4.5 Additional resources are managed and directed in accordance with risk management system and workplace procedures
 - 4.6 Restoration strategies are monitored, evaluated and adjusted in accordance with risk management system and workplace procedures
 - 4.7 Power generation systems are stabilised and integrity is maintained in accordance with risk management system and workplace procedures
- 5 Document and review crisis and response**
 - 5.1 Equipment failure and problems are identified and managed in accordance with risk management system procedures
 - 5.2 Crisis feedback from key stakeholders is analysed in

accordance with risk management system and workplace procedures

- 5.3 Crisis reports and findings are distributed to relevant personnel in accordance with risk management system and workplace procedures
- 5.4 Improvements to crisis management plans, processes and procedures are recommended to relevant personnel and key stakeholders in accordance with risk management system and workplace procedures
- 5.5 Alternative crisis management strategies are identified and analysed, and recommendations are communicated to relevant personnel and key stakeholders in accordance with risk management system and 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 UEP Electricity Supply Industry - Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS513 Manage operational crisis to maintain or restore power system integrity.

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 UEPOPS053 Manage operational crisis to maintain or restore power system integrity

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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 and performance criteria on at least two separate occasions and include:

- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures and techniques
 - safe working practices
 - site safety procedures
- communicating with personnel during a crisis event
- controlling crisis emergency situations
- detecting plant status, including interpreting remote indication of plant status and condition
- determining corrective actions using data analysis techniques and tools
- documenting and reviewing crisis events and responses
- identifying crisis events
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- instigating contingency and emergency response plans
- managing crisis, including oversight of personnel
- recognising abnormal plant operating conditions using diagnostic techniques
- responding to stakeholder feedback
- utilising communication techniques and methods, including recording procedures
- working with and managing the risk management system.

Knowledge Evidence

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

- arrangements of power production plant
- communication equipment, techniques and procedures
- contingency and emergency response plans

- control techniques and methods for crisis events
- manuals
- power generation plant and equipment, location and operating parameters
- power generation plant status
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- risk management systems
- risk mitigation processes
- role of external authorities and agencies
- stakeholder liaison and feedback
- stakeholder management techniques, including liaising with contractors and clients
- types of crises events
- WHS/OHS requirements, including
 - emergency procedures and techniques
 - safe working practices
 - site safety procedures
- 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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