



Australian Government

UEPOPS123 Perform risk analysis of generation plant

Release: 1

UEPOPS123 Perform risk analysis of generation plant

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 identify and analyse risks in the loss of power generation and production plant.

Risk analysis identifies dangers posed by potential natural or human caused adverse events. Once risks have been identified, they must be assessed as to potential impact and the probability of occurrence.

Competency in this unit requires the ability to identify risks; conduct analysis; produce, implement and monitor recommendations; and complete documentation. Individuals will, in general, work under supervision, in a power generation facility as an operator.

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.

PERFORMANCE CRITERIA

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

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|---|---|
| 1 Identify risk | 1.1 Power generation plant maintenance and operational procedures are obtained in accordance with workplace procedures |
| | 1.2 Power generation plant operating and maintenance history, including incident and failure reports, is obtained 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, environmental requirements and workplace procedures are identified, applied and monitored |
| | 1.4 Power generation plant technical documentation is obtained in accordance with workplace procedures |
| | 1.5 Risk analysis objectives for power generation plant are defined in accordance with workplace procedures |
| 2 Conduct analysis | 2.1 Risk analysis is completed using methodology in accordance with workplace procedures |
| | 2.2 Power generation plant incident scenarios are identified and consequences analysed and prioritised for risk in accordance with workplace procedures |
| | 2.3 Objectives identified during risk analysis for power generation plant risk scenarios are recorded in accordance with workplace procedures |
| 3 Produce, implement and monitor recommendations | 3.1 Recommendations for risk preventative actions are produced against each power generation plant risk scenario in accordance with workplace procedures |
| | 3.2 Implementation of recommendations for risk controls are monitored in accordance with workplace procedures |
| 4 Complete documentation | 4.1 Risk analysis recommendations are documented in accordance with workplace procedures |
| | 4.2 Risk analysis report is produced and submitted 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 UEP Electricity Supply Industry – Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS414 Perform risk analysis of generation plant.

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 UEPOPS123 Perform risk analysis of generation plant

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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 (OHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures
 - risk control measures
 - safe working practices
- communicating and consulting with personnel
- completing documentation using recording procedures
- conducting risk analysis using data analysis techniques and tools
- identifying risks
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- producing, implement and monitor risk analysis recommendations
- using power generating plant and processes
- working within power generation plant operating parameters.

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
- identification and implementation of risks
- manuals
- power generating plant and processes
- power plant and equipment, location and operating parameters
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements'
- risk analysis methods and techniques

- risk analysis recommendations
- WHS/OHS requirements, including:
 - emergency procedures
 - safe working practices
 - risk control measures
- 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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