



Australian Government

UEPOPS414 Perform risk analysis of generation plant

Release: 1

UEPOPS414 Perform risk analysis of generation plant

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 identify and analyse risks in the loss of power generation and/or 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 their 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 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

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

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 is obtained, in accordance with workplace procedures, including incident and failure reports
- 1.3 Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations and environmental standards are researched and applied, in accordance with workplace procedures
- 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 approved methodology, in accordance with workplace procedures
- 2.2 Power generation plant incident scenarios are identified and consequences are 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, as appropriate, 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS414B 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 UEPOPS414 Perform risk analysis of generation plant

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 (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 legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and 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, performance criteria and range of conditions and includes knowledge of:

- identification and implementation of risks
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- power generating plant and processes
- power plant and equipment, its location and operating parameters
- risk analysis methods and techniques
- risk analysis recommendations
- typical arrangements of power production plant

- WHS/OHS legislated requirements including:
 - emergency procedures
 - safe working practices
 - risk control measures
- 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.

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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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