



Australian Government

UEPOPS054 Manage operational strategies for power production

Release: 1

UEPOPS054 Manage operational strategies for power production

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 operational strategies in achieving the short- and long-term goals of a power generation facility's production plant.

An operational plan of action describes how a power generation facility will employ resources in producing power. Operational strategies are the methods used to reach objectives and performance targets related to resources, personnel and the work processes outlined in the operational plan.

Competency in this unit requires the ability to identify short- and long-term strategies, implement and manage strategies and report outcomes of strategies. Individuals will, in general, work as an operator with responsibility for operational strategies, in a power generation facility.

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 short- and long-term strategies | <ul style="list-style-type: none">1.1 Purpose of short- and long-term strategies are identified and clarified with all stakeholders, including external organisations, in accordance with workplace procedures1.2 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 monitored1.3 Budgets, operational, maintenance and personnel requirements are evaluated with operational plan and strategies in accordance with workplace procedures1.4 Data and operational information are analysed and evaluated in accordance with workplace procedures1.5 Operating strategies are monitored and managed in accordance with workplace procedures1.6 Team and individual roles and responsibilities are identified and managed in accordance with workplace procedures |
| 2 Implement and manage strategies | <ul style="list-style-type: none">2.1 Power generating plant operational procedures are reviewed and managed in consultation with stakeholders, operational plan and strategies in accordance with workplace procedures2.2 Power generating plant operations and condition are managed and reported in accordance with workplace procedures2.3 Power generating plant abnormal operating conditions are investigated and reported in accordance with workplace procedures2.4 Critical resources and supplies for operational strategies are managed with operational plan in accordance with workplace procedures2.5 Human resource requirements are managed in accordance workplace procedures2.6 Debriefings are conducted with operational plan in accordance workplace procedures |
| 3 Report outcomes of | <ul style="list-style-type: none">3.1 Improvements to operational strategies are identified and |

strategies

managed in consultation with all stakeholders in accordance workplace procedures

- 3.2 Results of debriefings are reported with operational plan in accordance with workplace procedures
- 3.3 Improvements to operational strategies are implemented and managed with operational plan 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 UEPOPS529 Manage operational strategies for power production.

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 UEPOPS054 Manage operational strategies for power production

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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
 - risk control measures
 - safe working practices
- communicating with personnel and stakeholders
- determining and managing operational strategies
- identifying short- and long-term operational strategies
- identifying plant status using data analysis techniques and tools
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- instigating and monitoring operational strategies
- managing generation plant and operating parameters
- managing human resources in power production
- reporting outcomes of power generation production
- utilising stakeholder management techniques.

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 of power generation plant status
- measurement and analysis systems and procedures, including data collection and analysing techniques
- operational strategy practices
- power generation plant and equipment, location and operating parameters
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and

- specifications, and environmental requirements
- stakeholder liaison and management techniques
- WHS/OHS requirements, including:
 - emergency procedures
 - 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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