



Australian Government

UEPOPS520 Evaluate cost estimations and initiate appropriate solutions

Release: 1

UEPOPS520 Evaluate cost estimations and initiate appropriate solutions

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 evaluate estimated costs for planned and forced power generation plant outages (either a single item or whole unit) and to initiate appropriate solutions.

An outage is when power generation plant and/or equipment is not available to perform its intended function. Forced outage is the shutdown of power generation plant, equipment or a power generation facility when a generating unit is unavailable to produce power due to an unexpected breakdown.

Competency in this unit requires the ability to evaluate work details, identify costs, develop solutions and complete documentation. Individuals will, in general, work under supervision, in a power generation facility as an operator with responsibility for maintenance budgets.

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

UEENEEC005B Estimate electrotechnology projects

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Evaluate work details

PERFORMANCE CRITERIA

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

- 1.1 Power generation plant outage work plan and methods are evaluated, in accordance with workplace procedures
- 1.2 Time frames for power generation plant outage work is identified, in accordance with workplace procedures
- 1.3 Details of materials, equipment, specialist services and contractual provisions are identified, in accordance with workplace procedures
- 1.4 Specific disposal requirements are evaluated, in accordance with workplace procedures
- 2.1 Costs associated with the planned and forced outages are evaluated, in accordance with workplace procedures
- 2.2 Previous planned and forced outages are analysed, in accordance with workplace procedures, to determine problems
- 3.1 Potential solutions to limit time frame and budget over runs are identified, in accordance with workplace procedures
- 3.2 Potential variations in planned and forced outages scope of work are identified, in accordance with workplace procedures, and solutions are developed
- 4.1 Evaluation report is produced, in accordance with workplace procedures
- 4.2 Possible increases in budget are documented, in accordance with workplace procedures

2 Identify costs

3 Develop solutions

4 Complete documentation

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 UEPOPS520A Evaluate cost estimations and initiate appropriate solutions.

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 UEPOPS520 Evaluate cost estimations and initiate appropriate solutions

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 key stakeholders
- completing documentation
- developing planned and forced outage cost solutions
- evaluating planned and forced outage details
- identifying planned and forced outage costs using data analysis
- implementing legislation, industry standards, codes of practice and regulations
- producing quotations and cost options
- recognising cause and consequences of potential costs using data analysis techniques and tools
- utilising costing and quoting techniques

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:

- costing and quotation techniques
- costing and quotation techniques
- data analysis
- legislation, industry standards, codes of practice and regulations
- planned and forced outages
- potential solutions for outage costs
- power generation plant and equipment, its location and operating parameters

- 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.

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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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