



Australian Government

UEPOPS128 Produce maintenance plans for generation production plant

Release: 1

UEPOPS128 Produce maintenance plans for generation production 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 undertake the establishment and implementation of maintenance plans for generation production plant. Power generation production plant can include boilers, turbines, hydro equipment and systems, electrical components and systems, control and monitoring systems, ash and dust systems, water treatment and fuel equipment.

A maintenance plan details the actions to maintain and improve the condition of power generating plant. It involves the inspection, servicing, repairing or replacing of the physical components of machines, plant and equipment.

Competency in this unit requires the ability to research and plan for maintenance, develop maintenance plans, and implement and monitor maintenance plans. Individuals will, in general, work under supervision, in a power generation facility as an operator with responsibility for maintenance planning.

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

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Research and plan for maintenance

- 1.1** Work requirements are identified from relevant personnel and site inspection in accordance with 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** Resources for maintenance planning are obtained in accordance with workplace procedures
- 1.4** Relevant plans, drawings and manuals are selected and used in accordance with workplace procedures
- 1.5** Maintenance is sequenced and prioritised in accordance with workplace procedures
- 1.6** Potential hazards are identified, and risk control measures are selected and implemented in accordance with workplace procedures
- 1.7** Generation production plant maintenance history, including condition monitoring information, recent modifications and existing status, are identified and addressed in the maintenance plan in accordance with workplace procedures
- 1.8** Costing of maintenance work is undertaken and impact on budget is assessed in accordance with workplace procedures
- 1.9** Operational testing and generation production plant recommissioning is identified in accordance with workplace procedures

2 Develop maintenance plan

- 2.1** Maintenance schedule is placed into the maintenance plan in accordance with workplace procedures
- 2.2** Generation production plant isolation and access requests are documented in accordance with workplace procedures
- 2.3** Availability of resources is confirmed and documented in accordance with workplace procedures

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| | 2.4 | Information relevant to work activities, including risk management and quality control, is attached to maintenance plan in accordance with workplace procedures |
| | 2.5 | Maintenance plan is distributed to personnel in accordance with workplace procedures |
| | 2.6 | Maintenance methods are documented as part of the maintenance plan and are presented for review to relevant personnel in accordance with workplace procedures |
| 3 Implement and monitor maintenance plan | 3.1 | Maintenance plan is implemented in accordance with workplace procedures |
| | 3.2 | Feedback on maintenance plan is sought in accordance with workplace procedures |
| | 3.3 | Maintenance plan is modified and approved in accordance with workplace procedures |
| | 3.4 | Amended maintenance plan is distributed to relevant personnel 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 UEPOPS425 Produce maintenance plans for generation production 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 UEPOPS128 Produce maintenance plans for generation production 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
- analysing information using data analysis techniques and tools
- communicating with personnel
- developing maintenance plan
- disseminating maintenance plan
- documenting maintenance methods
- identifying risk management and quality control information and procedures
- implementing and monitoring maintenance plan
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- producing maintenance plans
- recognising maintenance requirements by applying maintenance planning principles
- researching and planning for maintenance
- using manuals.

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
- dissemination of maintenance plans
- generation production plant and equipment, location and operating parameters
- maintenance methods
- maintenance plan development using maintenance planning philosophies and practices

- maintenance plan implementation
- manuals
- quality control
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- risk management
- 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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