



Australian Government

UEPOPS129 Produce maintenance strategies for generation production plant

Release: 1

UEPOPS129 Produce maintenance strategies 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 strategies for power generation production plant. Generation production plant can include boilers, turbines, hydro equipment, electrical systems, control and monitoring systems, ash and dust systems, water treatment plant and fuel equipment.

A maintenance plan details the inspection, servicing, repairing or replacing of physical components of machines, plant and equipment used in power generation facilities through the implementation of a prescribed maintenance schedule. Strategies relate to what must happen to achieve the objectives outlined in the maintenance plan.

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

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

UEPOPS128 Produce maintenance plans for generation production plant

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Research and plan for strategies

- 1.1 Existing maintenance strategies are reviewed in accordance with maintenance plan and 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 Business plans are reviewed for impact on maintenance plan and proposed work in accordance with workplace procedures
- 1.4 Maintenance activities are identified in accordance with maintenance plan and workplace procedures
- 1.5 Timeframes for implementation and completion of maintenance strategies are established in accordance with maintenance plan and workplace procedures
- 1.6 Key indicators of maintenance strategy performance are defined in accordance with maintenance plan and workplace procedures
- 1.7 Budget is developed to identify maintenance costs in accordance with maintenance plan and workplace procedures
- 1.8 Legal implications of maintenance work to be undertaken are identified in accordance with maintenance plan and workplace procedures
- 1.9 Risk control measures are applied in accordance with maintenance plan and workplace procedures

2 Establish strategies

- 2.1 Resources to implement maintenance strategies are identified and obtained in accordance with maintenance plan and workplace procedures
- 2.2 Timeframes and potential variances for maintenance scheduling are identified in accordance with

maintenance plan and workplace procedures

2.3 Interdependence of maintenance activities is identified and documented in accordance with maintenance plan and workplace procedures

2.4 Objectives for maintenance strategies are documented in accordance with maintenance plan and workplace procedures

3 Implement strategies

3.1 Maintenance strategies are implemented to facilitate outcomes in accordance with maintenance plan and workplace procedures

3.2 Variances in maintenance strategies are identified in accordance with maintenance plan and workplace procedures

3.3 Strategies are redeveloped and updated in accordance with maintenance plan and workplace procedures

3.4 Opportunities for maintenance strategy enhancements are identified and documented for inclusion in future strategy preparation in accordance with maintenance plan and 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 UEPOPS505 Produce maintenance strategies 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>