



Australian Government

UEPOPS143 Tune process plant and equipment

Release: 1

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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 complete the investigation, nomination and adjustment of tuning parameters associated with power generation process plant and equipment

Tuning is a method in which one or more parameters of power generation plant and equipment are adjusted up or down to achieve an improved or specified result. Tuning will include testing and reviewing power generation process plant and equipment to identify faults.

Competency in this unit requires the ability to plan and prepare to tune generation process plant and equipment, test and implement process plant tuning, and complete documentation. Individuals will, in general, work under supervision as an operator, in a power generation facility.

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

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 Plan and prepare work

- 1.1** Tuning requirements for process plant and equipment are identified from relevant personnel and documentation 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** Resource and equipment requirements are identified in accordance with workplace procedures
- 1.4** Process plant availability, capability and limitations are identified in accordance with workplace procedures
- 1.5** Testing and monitoring equipment are connected in accordance with process plant, manufacturers' recommendations and specifications, and workplace procedures
- 1.6** Initial operating state for process plant is maintained for testing in accordance with legislative requirements and workplace procedures
- 1.7** Test procedures are identified and recording documentation and equipment is prepared in accordance with workplace procedures
- 1.8** Testing equipment is calibrated in accordance with manufacturers' recommendations and specifications, and workplace procedures

2 Test plant and implement tuning

- 2.1** Field instrumentation and control elements are checked for calibration and operation in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 2.2** Testing and tuning are performed in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 2.3** Variations are reassessed and accommodated to enable test objectives to be met in accordance with manufacturers' recommendations and specifications, and workplace procedures

- 2.4 Testing results are analysed and new settings for process plant are determined in accordance with workplace procedures
- 2.5 Accuracy of test results is assessed through analysis of test data in accordance with workplace procedures
- 2.6 Process plant is retuned to achieve outcomes in accordance with workplace procedures
- 3 **Complete documentation**
 - 3.1 Records are updated and documentation is retained in accordance with workplace procedures
 - 3.2 Changes to equipment operational settings are recommended to relevant personnel in accordance with workplace procedures
 - 3.3 Implementation of recommendations are monitored 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 UEPOPS511 Tune process plant and equipment.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>