



Australian Government

UEPOPS133 Shut down a boiler unit

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 conduct the shutdown of a boiler unit to a depressurised state.

A shutdown of a boiler unit will involve a series of steps to stop production, feed and fuel flows in a safe and controlled manner.

Competency in this unit requires the ability to plan and prepare boiler unit shutdown, conduct a shutdown, test boiler unit operation during shutdown, analyse boiler unit system faults during shutdown and complete documentation post-shutdown. Individuals will, in general, work under supervision in a power generation facility as an operator.

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

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

- 1 Plan and prepare boiler unit shutdown work**
 - 1.1** 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
 - 1.2** Work requirements are identified from relevant personnel and documentation in accordance with workplace procedures
 - 1.3** Preoperational checks are carried out on boiler unit plant in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 2 Conduct boiler unit shutdown**
 - 2.1** Perform shutdown of boiler unit in accordance with manufacturers' recommendations and specifications, and workplace procedures
 - 2.2** Boiler unit is cooled down and purged in accordance with manufacturers' recommendations and specifications, and workplace procedures
 - 2.3** Boiler unit is depressurised in accordance with manufacturers' recommendations and specifications, and workplace procedures
 - 2.4** Corrective actions are taken to rectify boiler unit abnormalities in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 3 Test boiler unit plant operation**
 - 3.1** Tests are performed on boiler unit in accordance with workplace procedures
 - 3.2** Power generation system and boiler unit plant is observed for operational response in accordance with workplace procedures
 - 3.3** Boiler unit plant is returned to required operational status upon completion of testing in accordance with workplace procedures
- 4 Analyse and report on system faults during boiler unit shutdown**
 - 4.1** Causes of abnormal boiler unit plant operating conditions are identified by analysing technical and operational information in accordance with workplace procedures
 - 4.2** Boiler unit plant integrity and personnel safety is

maintained through consultation with relevant personnel and technical and operational documentation in accordance with workplace procedures

4.3 Relevant personnel are notified when defects are detected in accordance with workplace procedures

5 Complete documentation **5.1** Boiler unit plant problems, movements and status are reported in accordance with workplace procedures

5.2 Documentation is updated 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 UEPOPS410 Shut down a boiler unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>