



Australian Government

UEPOPS082 Operate and monitor boiler draught system

Release: 1

UEPOPS082 Operate and monitor boiler draught system

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 operate, inspect and monitor boiler draught equipment.

Boiler draught is defined as the difference between atmospheric pressure and the pressure existing in a furnace or the flue gas passage of a boiler. Boiler draught is important to the smooth operation of all the systems in a power generating facility.

Competency in this unit requires the ability to plan work, operate boiler draught system plant, test boiler draught system plant, analyse boiler draught system plant faults, monitor and inspect boiler draught system plant, and complete all documentation. 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.

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| 1 Plan and prepare for boiler draught system operation | <ul style="list-style-type: none">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 monitored1.2 Work requirements, including permits, are identified from relevant personnel and documentation in accordance with workplace procedures1.3 Documentation to determine boiler draught system plant status is assessed and evaluated in accordance with workplace procedures1.4 Inspection, preoperational checks and field preparations for boiler draught system plant service are carried out in accordance with manufacturers' specifications and workplace procedures1.5 Boiler draught system plant operational prerequisites are established in accordance with manufacturers' specifications and workplace procedures1.6 Sequence for recommissioning of boiler draught system plant is determined to suit existing circumstances in accordance with workplace procedures |
| 2 Operate boiler draught system plant | <ul style="list-style-type: none">2.1 Boiler draught system plant is operated in accordance with manufacturers' specifications and workplace procedures2.2 Boiler draught system plant is monitored and observed to detect deviations from normal operating conditions in accordance with workplace procedures2.3 Corrective actions are taken to rectify abnormalities in accordance with workplace procedures |
| 3 Test plant boiler draught system operation | <ul style="list-style-type: none">3.1 Operational tests are performed in accordance with workplace procedures3.2 Boiler draught system plant is observed for correct operational response in accordance with workplace procedures3.3 Boiler draught system plant is returned to required operational status upon completion of testing in accordance with workplace procedures |

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| 4 Analyse boiler draught system plant faults | 4.1 | Causes of abnormal boiler draught system plant operating conditions are identified by analysing technical and operational information in accordance with workplace procedures, |
| | 4.2 | Boiler draught system plant integrity and personnel safety are maintained in consultation with relevant personnel and technical and operational documentation in accordance with workplace procedures |
| 5 Monitor and inspect boiler draught system plant | 5.1 | Boiler draught system plant is monitored and inspected for normal operation and to detect deviations in accordance with workplace procedures, |
| | 5.2 | Relevant personnel are notified when defects are detected in accordance with workplace procedures, |
| 6 Complete documentation | 6.1 | Boiler draught system plant problems, movements and status are reported in accordance with workplace procedures |
| | 6.2 | 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 UEPOPS313 Operate and monitor boiler draught system.

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 UEPOPS082 Operate and monitor boiler draught system

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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:

- analysing boiler draught system plant to identify and respond to abnormal boiler draught system plant operating conditions
- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including
 - emergency procedures
 - safe working practices
 - risk control measures
- communicating with personnel
- completing documentation
- executing corrective actions for faults
- identifying boiler draught system plant faults using data analysis techniques and tools
- identifying boiler draught system plant status
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting drawings and manuals
- isolating boiler draught system
- monitoring and inspecting boiler draught system plant operation, including combustion, fans, air flow and control
- operating boiler draught system plant
- organising resources
- preparing boiler draught system plant and equipment for operation and planning work
- testing boiler draught system plant operation using diagnostic and testing techniques
- using permit to work system.

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
- boiler draught system faults and corrective actions
- boiler draught system plant and equipment, location and operating parameters, including combustion, fans, air flow and control
- boiler draught system plant status
- isolations requirements
- manuals
- permit to work system
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- 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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