



Australian Government

UEPOPS094 Operate and monitor fuel firing plant - coal

Release: 1

UEPOPS094 Operate and monitor fuel firing plant - coal

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 fuel firing plant (coal).

Regular inspections and monitoring of fuel firing plant is required to ensure the safe operation of coal firing system.

Competency in this unit requires the ability to plan work, operate fuel firing (coal) plant, test fuel firing plant, analyse fuel firing plant faults, monitor and inspect fuel firing 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.

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 fuel firing plant 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 fuel firing plant status is assessed and evaluated in accordance with workplace procedures1.4 Inspection, preoperational tests and field preparations for fuel firing plant service are carried out in accordance with manufacturers' recommendations and specifications, and workplace procedures1.5 Fuel firing plant operational prerequisites are established in accordance with manufacturers' recommendations and specifications, and workplace procedures1.6 Sequence for recommissioning of fuel firing plant is determined in accordance with workplace procedures |
| 2 Operate fuel firing plant | <ul style="list-style-type: none">2.1 Fuel firing plant is operated in accordance with manufacturers' recommendations and specifications, and workplace procedures2.2 Fuel firing plant is monitored and observed to detect deviations from normal operating conditions in accordance with workplace procedures2.3 Corrective actions are taken to rectify fuel firing plant abnormalities in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| 3 Test fuel firing plant operation | <ul style="list-style-type: none">3.1 Operational tests are performed in accordance with workplace procedures3.2 Fuel firing plant is observed for correct operational response in accordance with workplace procedures3.3 Fuel firing plant is returned to required operational status upon completion of test in accordance with workplace procedures |

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| 4 Analyse fuel firing plant faults | 4.1 Causes of abnormal fuel firing plant operating conditions are identified by analysing technical and operational information in accordance with workplace procedures, |
| | 4.2 Fuel firing 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 fuel firing plant | 5.1 Fuel firing 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 Fuel firing 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 UEPOPS315 Operate and monitor fuel firing plant (coal).

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 UEPOPS094 Operate and monitor fuel firing plant - coal

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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 fuel firing plant faults using data analysis techniques and tools
- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures
 - risk control measures
 - safe work practices
- communicating with personnel
- completing documentation using recording procedures
- identifying fuel firing (coal) plant status
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- isolating fuel firing plant
- monitoring and inspecting plant operation
- operating fuel firing plant
- organising resources
- preparing and planning work
- recognising and responding to abnormal plant operating conditions
- testing fuel firing plant operation using diagnostic and testing techniques
- using work permits
- working with fuel firing plant or equipment.

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
- fuel firing plant and equipment, location and operating parameters

- fuel firing plant faults and corrective actions
- fuel firing plant status
- isolation requirements
- manuals
- permits
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- WHS/OHS requirements, including:
 - emergency procedures
 - risk control measures
 - safe work 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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