



Australian Government

UEPOPS314 Operate and monitor fuel firing plant (gas or oil)

Release: 1

UEPOPS314 Operate and monitor fuel firing plant (gas or oil)

Modification History

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

Application

This unit involves the skills and knowledge required to operate, inspect and monitor fuel firing plant (gas or oil).

Regular inspections and monitoring of fuel firing plant is required to ensure the safe operation of gas and/or oil firing systems.

Competency in this unit requires the ability to plan work, operate fuel firing (gas or oil) plant, test fuel firing plant, analyse fuel firing plant faults, monitor and inspect fuel firing plant and the completion of all documentation. Individuals will, in general, work under supervision, in a power generation facility as an operator.

Power generation plant operators are typically 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.

Note: Workplace practice

The application of the skills and knowledge described in this unit may require a licence or training permit to practice in the workplace where work is carried out on gas and electrical installations. Additional conditions may apply under state and territory legislative and regulatory licensing requirements.

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 work

- 1.1** Safety issues related to operating and monitoring fuel firing plant are identified, in accordance with workplace procedures and Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations and legislative requirements
- 1.2** Work requirements are identified, in accordance with workplace procedures, from relevant personnel and documentation
- 1.3** Documentation to determine fuel firing plant status is assessed and evaluated, in accordance with workplace procedures
- 1.4** Inspection, preoperational tests and field preparations for fuel firing plant service are carried out, in accordance with workplace procedures and manufacturers' recommendations
- 1.5** Fuel firing plant operational prerequisites are established, in accordance with workplace procedures and manufacturers' recommendations
- 1.6** Sequence for recommissioning of fuel firing plant is determined, in accordance with workplace procedures and site requirements

2 Operate fuel firing plant

- 2.1** Fuel firing plant is operated, in accordance with workplace procedures and manufacturers' operating recommendations
- 2.2** Fuel firing plant is monitored and observed, in accordance with workplace procedures, to detect deviations from normal operating conditions
- 2.3** Corrective actions are taken to rectify fuel firing plant abnormalities, in accordance with workplace procedures and manufacturers' recommendations

3 Test fuel firing plant operation

- 3.1** Operational tests are performed, in accordance with workplace procedures

- | | | |
|--|------------|---|
| | 3.2 | Fuel firing plant is observed, in accordance with workplace procedures, for correct operational response |
| | 3.3 | Corrective action is taken, in accordance with workplace procedures, when response does not meet with documentation, fuel firing plant integrity or personnel safety requirements |
| | 3.4 | Fuel firing plant is returned to required operational status upon completion of test, in accordance with workplace procedures |
| 4 Analyse fuel firing plant faults | 4.1 | Causes of abnormal fuel firing plant operating conditions are identified, in accordance with workplace procedures, and by analysing technical and operational information |
| | 4.2 | Corrective action is taken, in accordance with workplace procedures |
| | 4.3 | Fuel firing plant integrity and personnel safety is maintained, in accordance with workplace procedures, and in consultation with appropriate personnel and technical and operational documentation |
| 5 Monitor and inspect fuel firing plant | 5.1 | Fuel firing plant to be monitored and inspected is physically identified, in accordance with workplace procedures |
| | 5.2 | Fuel firing plant is monitored and inspected for normal operation or to detect deviations, in accordance with workplace procedures |
| | 5.3 | Corrective action is taken, in accordance with workplace procedures |
| | 5.4 | Appropriate 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS314B Operate and monitor fuel firing plant (gas or oil).

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 UEPOPS314 Operate and monitor fuel firing plant (gas or oil)

Modification History

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and includes:

- analysing fuel firing plant faults including identifying and responding to abnormal fuel firing plant operating conditions
- 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 working practices
- communicating with personnel
- completing documentation including using recording procedures
- identifying fuel firing plant status
- implementing legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and manuals
- monitoring and inspecting fuel firing plant operations
- operating fuel firing plant
- organising resources
- preparing and planning work
- preparing fuel firing plant and/or equipment for operation
- testing fuel firing plant operationally using diagnostic and test techniques
- working with 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, performance criteria and range of conditions and includes knowledge of:

- fuel firing plant (gas or oil) plant and equipment, its location and operating parameters
- fuel firing plant (gas or oil) status

- legislation, industry standards, codes of practice, regulations
- manufacturers' specifications and manuals
- permit to work system
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:
 - emergency procedures
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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 currently used in industry
- applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume implementation guides are found in VETNet -

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