



Australian Government

UEPOPS354 Operate and monitor dual fuel firing plant

Release: 1

UEPOPS354 Operate and monitor dual fuel firing plant

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 dual fuel firing plant in which each fuel source provides a 100% maximum continuous rating.

Dual fuel firing plant must provide the means for maintaining a 100% maximum continuous rating by using alternative sources of fuel.

Competency in this unit requires the ability to plan work, operate, test, analyse and report on dual fuel firing plant operations. 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

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Plan and prepare work

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

2 Conduct operation of dual fuel firing plant

- 2.1** Dual fuel firing plant is operated, in accordance with workplace procedures and manufacturers' recommendations
- 2.2** Changeover from one fuel source to the other is conducted with minimal effect on load and steam conditions, in accordance with manufacturers' recommendations and workplace procedures
- 2.3** Dual fuel firing plant is monitored to detect deviations from normal operating conditions, in accordance with workplace procedures
- 2.4** Corrective actions are taken to rectify dual fuel firing plant abnormalities, in accordance with manufacturers' recommendations and workplace procedures

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| 3 Test, monitor, analyse and report on dual fuel firing plant operation | 3.1 Tests are performed on dual fuel firing plant, in accordance with workplace procedures |
| | 3.2 Dual fuel firing plant is observed for correct operational response, in accordance with workplace procedures |
| | 3.3 Corrective action is taken, in accordance with workplace procedures, when response is not in accordance with documentation, plant integrity or personnel safety |
| | 3.4 Dual fuel firing plant is returned to required operational status upon completion of testing, in accordance with workplace procedures |
| 4 Analyse dual fuel firing plant faults | 4.1 Causes of abnormal dual fuel firing plant operating conditions are identified, in accordance with workplace procedures, by analysing technical and operational information |
| | 4.2 Corrective action is taken, in accordance with workplace procedures |
| | 4.3 Dual fuel firing plant integrity and personnel safety is maintained, in accordance with workplace procedures and through consultation with appropriate personnel and technical and operational documentation |
| 5 Monitor and inspect dual fuel firing plant | 5.1 Dual fuel firing plant to be monitored and inspected is physically identified |
| | 5.2 Dual fuel firing plant is monitored and inspected for normal operation, in accordance with workplace procedures to detect deviations |
| | 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 Dual 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 UEPOPS354B Operate and monitor dual fuel firing plant.

Links

Companion Volume implementation guides are found in VETNet -

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