



Australian Government

UEPOPS240 Operate and monitor fuel supply (coal)

Release: 1

UEPOPS240 Operate and monitor fuel supply (coal)

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 coal delivery systems to power generating unit storage bunkers.

A power generating facility that burns fossil fuels is reliant on fuel supply delivery systems to maintain power generation capability. A coal delivery system will consist of plant and/or equipment that requires regular monitoring to ensure smooth operations are maintained.

Competency in this unit requires the ability to plan work, operate coal delivery system plant, analyse coal delivery system plant faults, monitor and inspect coal delivery system plant and 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 fuel delivery plant for operation

- 1.1** Safety issues related to operating and monitoring fuel delivery system 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, fuel delivery plant and resource requirements are identified, in accordance with workplace procedures, from appropriate personnel and documentation
- 1.3** Quality assurance requirements are identified, in accordance with workplace procedures
- 1.4** Documentation to determine fuel delivery plant status is assessed and evaluated, in accordance with workplace procedures
- 1.5** Inspection and field preparation for fuel delivery plant service is carried out, in accordance with workplace procedures and manufacturers' recommendations
- 1.6** Operational prerequisites for fuel delivery plant is established, in accordance with workplace procedures and manufacturers' recommendations
- 1.7** Sequence for recommissioning of fuel delivery plant is determined, in accordance with workplace procedures and site requirements

2 Operate coal delivery plant

- 2.1** Fuel delivery plant is operated, in accordance with workplace procedures and manufacturers' operating recommendations
- 2.2** Fuel delivery plant is monitored and observed, in accordance with workplace procedures, to detect deviations from normal operating conditions
- 2.3** Corrective action is taken, in accordance with workplace procedures, when fuel delivery plant response does not meet documentation, plant integrity or personnel safety requirements

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| | 2.4 | Fuel delivery plant is returned to operational status upon completion of testing, in accordance with workplace procedures |
| 3 Analyse fuel delivery plant faults | 3.1 | Causes of abnormal fuel delivery plant operating conditions are identified, in accordance with workplace procedures, by analysing technical and operational information |
| | 3.2 | Corrective action is taken, in accordance with workplace procedures |
| 4 Monitor and inspect fuel delivery plant | 4.1 | Fuel delivery plant to be monitored and inspected is physically identified, in accordance with workplace procedures |
| | 4.2 | Fuel delivery plant is monitored and inspected for normal operation or to detect deviations, in accordance with workplace procedures |
| | 4.3 | Corrective action is taken, in accordance with workplace procedures |
| | 4.4 | Appropriate personnel are notified when defects are detected, in accordance with workplace procedures |
| 5 Complete documentation | 5.1 | Fuel delivery plant problems, movements and status is 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS240B Operate and monitor fuel supply (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 UEPOPS240 Operate and monitor fuel supply (coal)

Modification History

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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, performance criteria and range of conditions on at least two separate occasions and includes:

- analysing fuel supply delivery system 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
- complying with legislation, industry standards, codes of practice and regulations
- identifying fuel supply delivery system plant status
- interpreting manufacturers' specifications and manuals
- operating, monitoring and inspecting fuel supply delivery system plant operations
- preparing and planning work including applying operational procedures
- recognising and responding to abnormal fuel supply delivery system plant operating conditions
- testing fuel supply delivery system 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 supply delivery system plant and equipment, its location and operating parameters
- fuel supply delivery system plant status
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- operation and inspection of fuel supply delivery system plant operations
- 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 permit to work system

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.

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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

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