



Australian Government

UEPOPS326 Operate and monitor oil systems

Release: 1

UEPOPS326 Operate and monitor oil systems

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, monitor and inspect oil systems.

Power generation facilities rely on oil systems to run power generation applications. Maintaining clean oil systems is essential to equipment and plant reliability.

Competency in this unit requires the ability to plan work, operate oil systems plant, test oil systems plant, analyse oil systems plant faults, monitor and inspect oil systems 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 oil 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 requirements are identified, in accordance with workplace procedures from appropriate personnel and documentation
- 1.3 Documentation to determine oil system plant status is assessed and evaluated, in accordance with workplace procedures
- 1.4 Inspection, preoperational checks and field preparations for oil system service are carried out, in accordance with workplace procedures and manufacturers' recommendations
- 1.5 Oil system plant operational prerequisites are established, in accordance with workplace procedures and manufacturers' recommendations
- 1.6 Sequence for recommissioning of oil system plant is determined, in accordance with workplace procedures and site requirements

2 Operate oil system plant

- 2.1 Oil system plant is operated, in accordance with workplace procedures and manufacturers' operating recommendations
- 2.2 Oil system 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 oil system plant abnormalities, in accordance with workplace procedures, industry standards and site requirements
- 2.4 Oil system plant is removed from service, in accordance with workplace procedures and site requirements

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| 3 Test oil system plant operation | 3.1 | Operational tests are performed, in accordance with workplace procedures |
| | 3.2 | Oil systems plant is observed for correct operational response, in accordance with workplace procedures |
| | 3.3 | Corrective action is taken when response does not meet with documentation, oil system plant integrity or personnel safety requirements |
| | 3.4 | Oil system plant is returned to required operational status upon completion of testing, in accordance with workplace procedures |
| 4 Analyse oil system plant faults | 4.1 | Causes of abnormal oil system 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 | Oil system plant integrity and personnel safety is maintained, in accordance with workplace procedures, and by consultation with appropriate personnel and technical and operational documentation |
| 5 Monitor and inspect oil system plant | 5.1 | Oil system plant to be monitored and/or inspected is physically identified, in accordance with workplace procedures |
| | 5.2 | Oil system plant is monitored and/or inspected, in accordance with workplace procedures, to detect deviations from normal operating conditions |
| | 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 | Oil system plant problems, movements, abnormalities 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 UEPOPS326B Operate and monitor oil systems.

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 UEPOPS326 Operate and monitor oil systems

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 oil system plant faults 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
- identifying oil system plant status
- implementing legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and manuals
- monitoring and inspecting oil system plant operation
- operating oil system plant
- organising resources
- preparing and planning work
- recognising and responding to abnormal oil system plant operating conditions
- testing oil system plant operationally diagnostic and testing techniques
- utilising permit to work system
- working with oil system plant and/or equipment

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:

- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- oil system plant and equipment, its location and operating parameters including supervisory,

- alarm, protection and control equipment
- oil system plant status
- 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

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