



Australian Government

UEPOPS113 Operate fabric filter dust collection plant

Release: 1

UEPOPS113 Operate fabric filter dust collection plant

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 fabric filter dust collection plant associated with coal fired power stations.

Dust collection plant is used to enhance the quality of air released from power generation processes. It consists of a blower, dust filter, a filter cleaning system and a dust receptacle or dust removal system.

Competency in this unit requires the ability to plan and prepare work; operate fabric filter dust collection plant; test, analyse, monitor, inspect and report dust collection plant faults; and complete 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 to work.

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 work | 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 monitored |
| | 1.2 Work requirements are identified from relevant personnel and documentation in accordance with workplace procedures |
| | 1.3 Inspection, preoperational checks and field preparations for fabric filter dust collection service are carried out in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| | 1.4 Fabric filter dust collection plant operational prerequisites are identified in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| | 1.5 Sequence for recommissioning fabric filter dust collection plant is determined in accordance with workplace procedures |
| 2 Conduct fabric filter dust collection plant operation | 2.1 Fabric filter dust collection plant is operated in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| | 2.2 Fabric filter dust collection plant is monitored to detect deviations from normal operating conditions in accordance workplace procedures |
| | 2.3 Corrective actions are taken to rectify fabric filter dust collection plant abnormalities in accordance with workplace procedures |
| 3 Test fabric filter dust collection plant operation | 3.1 Tests are performed in accordance with workplace procedures |
| | 3.2 Fabric filter dust collection plant is returned to required operational status upon completion of testing in accordance with workplace procedures |
| 4 Analyse fabric filter dust collection plant faults | 4.1 Causes of abnormal fabric filter dust collection plant operating conditions are identified by analysing technical and operational information in accordance with workplace procedures |

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| | 4.2 | Fabric filter dust collection plant integrity and personnel safety is maintained through consultation with relevant personnel and technical and operational documentation in accordance with workplace procedures |
| 5 Monitor and inspect fabric filter dust collection plant | 5.1 | Fabric filter dust collection plant to be monitored or inspected is physically identified 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 | Fabric filter dust collection 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 UEPOPS311 Operate fabric filter dust collection plant.

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 UEPOPS113 Operate fabric filter dust collection plant

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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:

- applying regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- 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 using recording procedures
- identifying and inspecting fabric filter dust collection plant status
- interpreting manuals
- monitoring fabric filter dust collection plant operation
- operating fabric filter dust collection plant
- operationally testing fabric filter dust collection plant using diagnostic and data analysis techniques
- organising resources
- preparing fabric filter dust collection plant and equipment
- recognising and responding to abnormal fabric filter dust collection plant operating conditions
- reporting on fabric filter dust collection plant status
- using measurement and testing instruments to identify and analyse faults and abnormalities
- 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 and performance criteria and include knowledge of:

- arrangements of power production plant

- fabric filter dust collection plant and equipment, location and operating parameters
- fabric filter dust collection plant status
- manuals
- operation of fabric filter dust collection plant
- permit to work system
- power generation plant and equipment, location and operating parameters
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- test and fault-finding techniques
- WHS/OHS requirements, including:
 - emergency procedures
 - risk control measures
 - safe working 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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