



Australian Government

UEPOPS080 Operate and monitor ash and dust disposal plant

Release: 1

UEPOPS080 Operate and monitor ash and dust disposal 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 ash and dust disposal plant associated with a coal fired power station.

Power generation facilities produce waste that must either be removed, recycled or stored. Ash and dust produced from coal power generation must be disposed of using an established ash and dust handling system.

Competency in this unit requires the ability to plan work, operate ash and dust disposal plant, test ash and dust disposal plant operation, respond to abnormal ash and dust disposal plant operation, monitor and inspect ash and dust disposal plant, and complete 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.

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 disposal plant for operation | 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 and field preparation for service of ash and dust disposal system is carried out in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| | 1.4 Ash and dust disposal plant operational prerequisites are established in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| | 1.5 Sequence for recommissioning of ash and dust disposal plant is determined in accordance with and workplace procedures |
| 2 Operate disposal plant | 2.1 Ash and dust disposal plant is operated in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| | 2.2 Ash and dust disposal plant is monitored and observed to detect deviations from normal operating conditions in accordance with workplace procedures |
| | 2.3 Corrective action is taken to rectify abnormalities in accordance with workplace procedures |
| 3 Test disposal plant operation | 3.1 Operational tests are performed in accordance with workplace procedures |
| | 3.2 Ash and dust disposal plant is observed for correct operational response in accordance with workplace procedures |
| | 3.3 Ash and dust disposal plant is returned to operational status upon completion of testing in accordance with workplace procedures |
| 4 Respond to abnormal disposal plant operation | 4.1 Causes of abnormal plant ash and dust disposal plant operating conditions are identified by analysing |

		technical and operational information in accordance with workplace procedures
	4.2	Ash and dust disposal plant integrity and personnel safety is maintained in consultation with relevant personnel and technical and operational documentation in accordance with workplace procedures
5 Monitor and inspect disposal plant	5.1	Ash and dust disposal plant to be monitored and inspected is physically identified in accordance with workplace procedures
	5.2	Ash and dust disposal plant is monitored and inspected for normal operation and to detect deviations in accordance with workplace procedures
	5.3	Relevant personnel are notified when defects are detected in accordance with workplace procedures
6 Complete documentation	6.1	Ash and dust disposal plant problems, 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 UEP Electricity Supply Industry - Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS241 Operate and monitor ash and dust disposal 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 UEPOPS080 Operate and monitor ash and dust disposal 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:

- analysing ash and dust disposal 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
 - safety practices and procedures
- communicating with personnel
- completing documentation using recording procedures
- complying with regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- monitoring and inspecting ash and dust disposal plant operations
- operating ash and dust disposal plant
- organising resources
- preparing and planning work
- recognising and responding to abnormal ash and dust disposal plant operating conditions
- testing ash and dust disposal plant operationally using diagnostic and testing 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 and performance criteria and include knowledge of:

- arrangements of power production plant, including ash and dust removal systems
- ash and dust disposal plant and equipment, location and operating parameters
- ash and dust disposal plant status
- manuals
- permit to work system

- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- types and characteristics of ash formations, bottom ash and fly ash
- WHS/OHS legislated requirements, including:
 - emergency procedures
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures, including recording 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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