



Australian Government

UEPOPS112 Operate bulk coal handling plant

Release: 1

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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 address the storage, reclaiming and despatching of bulk coal. It also encompasses monitoring any associated mobile bulk coal handling plant operations.

Bulk coal handling plant is used to convey coal from rail transport wagons to boilers or storage bunkers. They are also used to process raw coal, crush and stack coal to feed directly into power generation facilities.

Competency in this unit requires the ability to plan and prepare work; operate bulk coal handling plant; inspect, test, analyse and report bulk coal handling 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

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

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 and resource requirements are identified from relevant personnel and documentation in accordance with workplace procedures
- 1.3** Quality assurance requirements are recognised in accordance with workplace procedures
- 1.4** Mineralogy information is applied in accordance with workplace procedures
- 1.5** Work schedule is consistent with in accordance with job specifications and workplace procedures
- 1.6** Pad is prepared for coal stockpiling, including removal of contaminants and drainage, in accordance with workplace procedures
- 1.7** Preoperational checks are carried out on bulk coal handling plant in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 1.8** Sequence for recommissioning of bulk coal handling plant is determined in accordance with workplace procedures

2 Conduct operation of bulk coal handling plant

- 2.1** Start-up, park-up and shutdown procedures are carried out in accordance with workplace procedures
- 2.2** Bulk coal handling plant is operated in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 2.3** Bulk coal handling plant is monitored in accordance with workplace procedures to detect deviations from normal operating conditions
- 2.4** Corrective actions are taken to rectify bulk coal handling plant abnormalities in accordance with workplace procedures

- 2.5 Bulk coal handling plant to be removed from service is identified and isolated in accordance with workplace procedures
 - 2.6 Inspection and fault finding are carried out in accordance with manufacturers' recommendations and specifications, and workplace procedures
 - 2.7 Coal is placed or bunkered down in predetermined stockpile location in accordance with workplace procedures
 - 2.8 Reclaim specifications are received, despatch area is notified and equipment is made ready in accordance with workplace procedures
 - 2.9 Specified coal is blended, loaded, sampled and despatched in accordance with workplace procedures
- 3 Test bulk coal handling plant operation**
 - 3.1 Tests are performed in accordance with workplace procedures
 - 3.2 Bulk coal handling plant is observed for operational response in accordance with workplace procedures
 - 3.3 Bulk coal handling plant is returned to required operational status upon completion of testing in accordance with workplace procedures
- 4 Analyse bulk coal handling plant faults**
 - 4.1 Causes of abnormal bulk coal handling plant operating conditions are identified by analysing technical and operational information in accordance with workplace procedures
 - 4.2 Supplementary personnel are arranged for investigation of identified operational abnormalities in accordance with workplace procedures
- 5 Inspect bulk coal handling plant**
 - 5.1 Bulk coal handling plant to be inspected is physically identified in accordance with workplace procedures
 - 5.2 Bulk coal handling plant is inspected to detect deviations from normal operating conditions 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 Bulk coal handling 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 UEPOPS310 Operate bulk coal handling 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 UEPOPS112 Operate bulk coal handling 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 work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures
 - risk control measures
 - safe working practices
- blending and bunkering coal
- communicating with personnel
- completing documentation
- identifying and inspecting bulk coal handling plant status
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- monitoring bulk coal handling plant operation
- operating bulk coal handling plant
- organising resources
- preparing and planning bulk coal handling plant and equipment
- recognising and responding to abnormal bulk coal handling plant operating conditions
- reporting on bulk coal handling plant status
- testing bulk coal handling plant using diagnostic and data analysis techniques
- using measuring and testing instruments to identify faults and abnormalities.

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
- bulk coal handling plant and equipment, location and operating parameters
- coal blending procedures

- manuals
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- testing and fault-finding techniques
- WHS/OHS requirements, including:
 - risk control measures
 - emergency procedures
 - 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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