



Australian Government

UEPOPS310 Operate bulk coal handling plant

Release: 1

UEPOPS310 Operate bulk coal handling plant

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 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, to 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 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 are identified, in accordance with Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations, legislative requirements, industry standards and workplace procedures
- 1.2 Work, bulk coal handling plant and resource requirements are identified from appropriate personnel and documentation, in accordance with workplace procedures
- 1.3 Quality assurance requirements recognised and adhered to, in accordance with workplace procedures and industry standards
- 1.4 Basic mineralogy information is applied, in accordance with workplace procedures and site requirements
- 1.5 Work schedule is consistent with job requirements, in accordance with 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 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 shut down procedures are carried out, in accordance with manufacturers' recommendations, workplace procedures and site specific requirements
- 2.2 Bulk coal handling plant is operated, in accordance with workplace procedures and manufacturers' recommendations
- 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 industry standards and 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 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 correct operational response, in accordance with workplace procedures
 - 3.3 Corrective action is taken when response does not meet with documentation, workplace procedures, bulk coal handling plant integrity or personnel safety requirements
 - 3.4 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, in accordance with workplace procedures, by analysing technical and operational information
 - 4.2 Corrective action is taken, in accordance with workplace procedures
 - 4.3 Supplementary personnel are arranged for investigation of identified operational abnormalities, if required, 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, in accordance with workplace procedures, to detect deviations from normal operating conditions
- 5.3** Appropriate personnel are notified, in accordance with workplace procedures, when defects are detected
- 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS310B 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 UEPOPS310 Operate bulk coal handling plant

Modification History

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

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:

- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) 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 legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and 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, performance criteria and range of conditions and includes knowledge of:

- bulk coal handling plant and equipment, its location and operating parameters
- coal blending procedures
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals

- testing and fault finding techniques
- typical arrangements of power production plant
- WHS/OHS regulations including:
 - risk control measures
 - emergency procedures
 - 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.

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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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