



Australian Government

Department of Education, Employment and Workplace Relations

RIISAM208A Perform plant operational maintenance

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the performing plant operational maintenance in the coal mining industry. It includes: identifying and preparing for maintenance; conducting planned routine maintenance, breakdown maintenance and temporary repairs; and finalising the maintenance activity.

Application of the Unit

This unit is appropriate for those working in a operational or maintenance roles, at worksites within:

- Coal mining

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Identify and prepare for maintenance	1.1. Access, interpret and apply compliance documentation relevant to performing plant operational maintenance 1.2. Obtain, interpret and clarify/confirm work requirements in the form of shift briefings, handover details or work orders before proceeding 1.3. Select, prepare for use and transport equipment, materials and tools required for maintenance to the worksite 1.4. Access and apply safety information and procedures throughout the operations
2. Conduct planned routine maintenance	2.1. Receive schedule for planned routine maintenance and coordinate resources to carry out maintenance 2.2. Carry out maintenance 2.3. Complete details of routine maintenance actions and record any follow-up action required
3. Conduct breakdown maintenance	3.1. Evaluate the extent of work required to fix the breakdown and put in place site procedures to minimise loss of production 3.2. Carry out breakdown maintenance 3.3. Record details of maintenance action completed and/or required
4. Conduct temporary repairs	4.1. Identify the location of the problem and prioritise the requirement to minimise loss of production 4.2. Assess the requirement for temporary repairs and identify and acquire resources 4.3. Carry out the repair 4.4. Record details of temporary repairs
5. Finalise the maintenance activity	5.1. Complete site restoration and housekeeping 5.2. Pass recommendations for changes and improvements to the maintenance processes and procedures to the appropriate person

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the performance criteria in this unit, particularly for the application in the various circumstances in which this unit may be applied. This includes the ability to carry out the following as required to perform plant operational maintenance:

- apply legislative, organisation and site requirements and procedures
- apply safety requirements to operational maintenance activities
- access, interpret and apply technical information
- locate and identify equipment and components within the plant
- apply diagnostic techniques
- use relevant hand tools
- maintain equipment records/reports
- comply with site environmental requirements
- dispose of environmentally sensitive oils, fluids and materials

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly its application in a variety of circumstances in which the unit may be used. This includes knowledge of the following, as required to perform plant operational maintenance:

- site and equipment safety requirements
- equipment and plant characteristics, technical capabilities and limitations,
- equipment and plant operational procedures
- site equipment and plant maintenance procedures
- site environmental requirements and constraints related to operational maintenance activities

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following: • knowledge of the requirements, procedures and instructions for performing plant operational maintenance • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of plant operational maintenance • working with others to undertake and complete plant operational maintenance that meets all of the required outcomes • consistent timely completion of plant operational maintenance that safely, effectively and efficiently meets the required outcomes
Context of and specific resources for assessment	• This unit must be assessed in the context of the work environment. Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. • The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those required on the job. • Customisation of assessment and delivery environment to sensitively accommodate cultural diversity. • Aboriginal people and other people from a non English speaking background may have second

	language issues. • Assessment of this competency requires typical resources normally used in the work environment. Selection and use of resources for particular worksites may differ due to site circumstances. • Where applicable, physical resources should include equipment modified for people with disabilities. • Access must be provided to appropriate learning and/or assessment support when required.
Method of assessment	This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods: • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: • implementation of appropriate requirement, procedures and techniques for the safe, effective and efficient achievement of required outcomes • consistently achieving the required outcomes • first hand testimonial evidence of the candidate's: • working with others to undertake and complete plant operational maintenance
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Relevant compliance documentation may include:	• legislative, organisation and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • code of practice • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Planned routine maintenance procedures are those established and authorised for the site and may include:	• screen inspections • pump adjustments • crusher adjustments • belt tracking and tensions • chute inspections • oil levels • roller changes • unbolting pipes and flanges
Breakdown maintenance may include:	• any plant and equipment failure and electrical resets
Temporary repairs may include:	• patching • bandaging • plugging • clipping • stitching

Unit Sector(s)

Service and Maintenance

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.