



Australian Government

Department of Education, Employment and Workplace Relations

RIIMCU209A Conduct roadway maintenance

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers conducting roadway maintenance in the coal mining industry. It includes: planning and preparing for maintenance, conducting roadway maintenance, finalising work procedures, and carrying out operator maintenance on equipment. Licensing, legislative, regulatory and certification requirements vary between States, Territories, and industry sectors. Relevant information must be sourced prior to application of the unit.

Application of the Unit

This unit is appropriate for those working in an assistant role, 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. Plan and prepare for maintenance	1.1. Access, interpret and apply compliance documentation relevant to the work activity 1.2. Access, interpret and apply mine environmental data required to complete the allocated work 1.3. Coordinate and transport resources required for the work to the worksite
2. Conduct roadway maintenance	2.1. Resolve coordination activities with others at the site prior to commencement of, and during, the work activity 2.2. Carry out equipment, materials and services checks in accordance with the work requirements and site procedures 2.3. Erect/post warning signals and signs prior to commencement of task in accordance with site procedures 2.4. Apply ballast to roadways in accordance with site requirements 2.5. Carry out roadway dust suppression in accordance with site procedures 2.6. Divert and drain roof and floor water in accordance with site procedures 2.7. Recognise and respond to hazardous and emergency situations in accordance with manufacturer's instructions and/or site procedures
3. Finalise work procedures	3.1. Perform work in accordance with the work requirements and targets and within the operating capabilities of the equipment 3.2. Isolate services in accordance with site procedures 3.3. Complete job/task reports in accordance with site requirements and hand over details
4. Carry out operator maintenance on equipment	4.1. Carry out equipment inspections and fault finding in accordance with manufacturer's instructions and/or site requirements 4.2. Carry out routine operational servicing, lubrication and housekeeping tasks in accordance with manufacturer's instructions and/or site procedures and practices

	4.3. Carry out minor maintenance to manufacturer's instructions and site requirements 4.4. Process records in accordance with site requirements
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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 of this unit, particularly for its application in the various circumstances in which this unit may be applied. This includes the ability to carry out the following, as required to conduct roadway maintenance:

- apply legislative, organisation and site requirements and procedures for roadway maintenance
- apply personnel and operational safety requirements
- access, interpret, apply and communicate technical information
- use and maintain the roadway maintenance equipment
- identify, select and apply roadway maintenance materials
- perform the maintenance tasks required at the site
- use hand tools
- comply with environmental requirements

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be applied. This includes knowledge of the following, as required to conduct roadway maintenance:

- mine personnel and operational safety procedure
- mine operational procedures, layout and plan
- road maintenance equipment capabilities, limitations and maintenance requirement
- roadway maintenance materials and their application
- roadway maintenance techniques
- mine geological conditions
- mine environmental requirements and constraints related to roadway maintenance

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 conducting roadway maintenance • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of roadway maintenance • working with others to undertake and complete the roadway maintenance in a way that meets all of the required outcomes • consistent timely completion of roadway 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. • Assessment of this competency requires typical resources normally used in a resources and infrastructure sector environment. Selection and use of resources for particular worksites may differ due to the site circumstances. • 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. • 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 • consistent achievement of required outcomes • first hand testimonial evidence of the candidate's: • working with others to undertake and complete the roadway 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, organisational and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • management plans • OHS policy • code of practice • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Work requirements may be in the form of:	• shift briefings • handover details • work orders
Work requirement details may include:	• nature and scope of the work • achievement targets • equipment allocation, including any defects • locations of work • essential survey data • locations of service facilities • site working conditions • environmental conditions • hazards and potential hazards • next area of work and coordination requirements/issues
Mine environmental data may be in the form of:	• ventilation/gas data • deputy reports • geological hazard plan • survey data
Resources required for the work may include:	• personnel • machinery • materials • power • water

Equipment may include:	• pumps • pumping equipment • signs • barriers • tools
Material may include:	• ballast • concrete (readymix and quickset) • timber • salt • flyash
Maintenance of roadways may include:	• grading • contouring • dust suppression • ballasting holes • cutting drains
Machinery may include:	• grader • load haul dump and attachments • ram car • roller • bobcat
Operator (operational) maintenance procedures are those established and authorised for the site.	

Unit Sector(s)

Coal Mining (Underground)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.