

RIIMCU305A Conduct outburst mining operations

Release: 1



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Modification History

Not applicable.

Unit Descriptor

This unit covers the conduct of outburst mining operations in the coal mining industry. It includes: planning and preparing for operations, conducting mining operations in outburst conditions, and carrying out operator maintenance on outburst equipment. Licensing, legislative, regulatory and certification requirements that apply to this unit can 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 operational 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

EI	LEMENT	PERFORMANCE CRITERIA
1.	Plan and prepare for operation	1.1.Access, interpret and apply <i>compliance</i> documentation relevant to the work activity
		1.2. Access, interpret and apply <i>mine</i> environmental, geological and survey data required to complete the allocated work in accordance with site procedures
		1.3. Identify and access outburst manning requirements in accordance with the <i>outburst management plan</i>
		1.4. Carry out outburst <i>pre-operational checks</i> in accordance with the <i>outburst management plan</i>
2.	Conduct mining operations in outburst conditions	2.1.Resolve coordination activities with others at the site prior to commencement of, and during, the work activity
		2.2. <i>Operate</i> continuous miner and/or shuttle car in accordance with <i>outburst</i> management plan
		2.3. Carry out strata control operations in accordance with <i>outburst management plan</i>
		2.4. Maintain ventilation, <i>monitor environmental conditions</i> and take action in accordance with <i>outburst management plan</i>
		2.5. Recognise and respond to <i>hazardous</i> and emergency situations in accordance with manufacturer's instructions and/or site procedures
		2.6.2.6 Complete and maintain records and reports in accordance with site requirements
3.	Carry out operator maintenance on outburst equipment	3.1. Carry out <i>equipment</i> inspections and fault finding in accordance with manufacturer's instructions and/or site requirements
		3.2. Carry out routine operational servicing, lubrication and housekeeping tasks in accordance with manufacturer's instructions and/or site procedures and practices
		3.3. Carry out minor maintenance to manufacturer's instructions and/or site requirements

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3.4. Provide operator support during preparation for, and conduct of, maintenance tasks in accordance with site requirements

3.5. 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 used. This includes the ability to carry out the following, as required to conduct outburst mining operations:

- apply legislative, organisation and site requirements and procedures for conducting outburst mining operations
- apply and interpret mine rescue procedures and manager's rules
- apply resuscitation
- test and interpret gases
- read/identify geological change
- operate communications system
- operate breathing apparatus
- · apply rescue techniques
- access and interpret outburst management plan

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 used. This includes knowledge of the following, as required to conduct outburst mining operations:

- site personal and operational safety procedures
- outburst mining procedures
- operation of fresh air base/emergency equipment station
- breathing equipment
- mine/rescue procedures
- initial response First Aid
- communications systems
- mine gases and testing procedures
- geological conditions
- mining methods/sequence
- outburst manning equation
- pre-drilling data

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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 outburst mining operations
	implementation of requirements, procedures and techniques for the safe, effective and efficient completion of outburst mining operations
	working with others to undertake and complete the outburst mining operations in a way that meets all of the required outcomes
	consistent timely completion of outburst mining operations 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

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	 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 outburst mining operations
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

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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 management plans OHS policy safe working procedures (or equivalents) Australian standards Employment and workplace relations legislation Equal Employment Opportunity and Disability Discrimination legislation
Work requirements may be in the form of:	shift briefingshandover detailswork orders
Mine environmental, geological and survey data may be in the form of:	ventilation/gas datadeputy reportsgeological hazard plansurvey data
Outburst Management Plan may include:	 ventilation prediction procedures mining systems and procedures site specific information authority to mine
Pre-operational checks may include:	 emergency equipment base miner shuttle car services
Equipment may include:	 special miner (outburst fitted) filtered air system compressed air breathing equipment air supply to face workers
Work briefings may include:	cutting sequencehazardspotential hazards

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Machine operations may include:	 survey data previous shift reports/inspections position of fresh air base/emergency equipment station monitoring the environment manual remote
Monitoring of environment may include:	 stretch marks cutters calcite bands coal changing colour mylonite coal softening/hardening dyke stringers cindered coal change in gas make/type
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.

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