



Australian Government

RIIMCU602E Establish and maintain gas management systems

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to establish and maintain gas management systems in coal mining, including design, development, audit and review processes and procedures.

It applies to those working in management roles or technical specialist roles. They generally perform complex, non-routine tasks involving strategic and planning activities and are responsible for establishing and maintaining operational systems and plans.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories and industry sectors. Users must check requirements with relevant body before applying the unit.

Unit Sector

Coal mining (underground)

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare to establish and maintain gas management system	1.1 Access, interpret and apply gas management documentation 1.2 Identify, evaluate and clarify coal seam characteristics and mine conditions that contribute to flammable or irrespirable atmospheres or outbursts 1.3 Identify, analyse and evaluate hazards and risks relating to gas emissions and outbursts 1.4 Identify, analyse and evaluate requirements for ventilation in relation to the types and amounts of gas emissions 1.5 Identify, analyse and evaluate gas hazards caused by disruption to the ventilation system and the impact on mine atmosphere

ELEMENT	PERFORMANCE CRITERIA
	1.6 Identify, analyse and evaluate impacts of fire, ignition, outburst and explosion on gas hazards 1.7 Identify training needs and confirm training plan is established according to site requirements
2. Identify, analyse and evaluate gas control options and measures	2.1 Identify, analyse and evaluate gas control options and management methods 2.2 Identify, analyse and evaluate methods, purposes and uses of gas monitoring systems
3. Design and develop gas management systems	3.1 Establish gas management systems according to site requirements 3.2 Establish surface infrastructure that minimise risk of induced hazards relating to potential gas emissions according to site requirements 3.3 Incorporate gas monitoring systems for minimising potential gas hazards according to site requirements 3.4 Incorporate ventilation systems and controls for minimising risk of gas leakages according to site requirements 3.5 Incorporate contingency systems for mitigating gas risks and hazards according to site requirements
4. Establish gas management system	4.1 Establish gas management system objectives, descriptions and responsibilities and incorporate into the management system according to site requirements 4.2 Identify, develop and establish hazard control procedures associated with gas management according to site requirements 4.3 Establish gas management monitoring system installation, operation and maintenance procedures according to site requirements 4.4 Establish gas control device installation, operation and maintenance procedures according to site requirements 4.5 Establish gas management system information recording and reporting procedures according to site requirements 4.6 Determine and review action levels and responses for minimising gas hazards according to site requirements 4.7 Establish gas emergency and evacuation procedures according to site requirements 4.8 Develop and establish, audit, review and update procedures according to site requirements
5. Plan and prepare to implement gas management system	5.1 Identify, clarify and communicate to all personnel roles and responsibilities according to gas management system 5.2 Identify, forecast, obtain and allocate/schedule resources required for implementation of the gas management system 5.3 Review gas management system implementation procedures and implement changes as required
6. Audit and review	6.1 Audit mine gas monitoring systems operations according to site

ELEMENT	PERFORMANCE CRITERIA
gas management system	requirements 6.2 Audit mine gas control devices according to site requirements 6.3 Audit recording systems according to site requirements 6.4 Audit the maintenance program and procedures according to site requirements 6.5 Audit gas management training program according to site requirements 6.6 Establish procedures for response to instances of non-compliance or other discrepancies/deficiencies revealed by audit 6.7 Identify and respond to instances of non-compliance or other discrepancies/deficiencies revealed by audit 6.8 Maintain records, reports and policy documentation according to site requirements 6.9 Identify and evaluate future gas management requirements and incorporate into planning procedures according to gas management system

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Oral communication	Conveys information and requirements clearly and listens actively
Reading	Identifies and interprets relevant information from workplace procedures, documentation and legislation
Writing	Prepares specific information that complies with a range of requirements, using sector-specific vocabulary, grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIIMCU602D Establish and maintain the gas management plan.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>