



Australian Government

RIIMCU602D Establish and maintain the gas management system

Release: 1

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Modification History

Not applicable.

Application

This unit describes a participant's skills and knowledge required to establish and maintain the gas management system in Coal mining.

This unit is appropriate for those working in management roles.

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.

Unit Sector

Coal mining (Underground)

Elements and Performance Criteria

<p>1. Plan and prepare to establish and maintain the gas management system</p>	<p>1.1 Access, interpret and apply gas management system, and ensure the work activity is compliant</p> <p>1.2 Identify, evaluate and clarify coal seam characteristics and mine conditions, which contribute to flammable or irrespirable atmospheres or outbursts</p> <p>1.3 Identify, analyse and evaluate hazards and risks relating to gas emissions and outbursts</p> <p>1.4 Identify, analyse and evaluate the requirements for ventilation in relation to the types and amounts of gas emissions</p> <p>1.5 Identify, analyse and evaluate gas hazards caused by disruption to the ventilation system and the impact on the mine atmosphere</p> <p>1.6 Identify, analyse and evaluate the impacts of fire, ignition, outburst and explosion on the gas hazards</p> <p>1.7 Identify, analyse and evaluate the impacts of water accumulations on gas management</p>
<p>2. Identify, analyse and evaluate gas control options and measures</p>	<p>2.1 Identify, analyse and evaluate the types and advantages/disadvantages of gas control options and management methods including gas drainage</p> <p>2.2 Identify, analyse and evaluate the method, purpose and uses of gas monitoring systems</p>
<p>3. Design and develop gas management systems</p>	<p>3.1 Establish gas management systems</p> <p>3.2 Establish surface infrastructure, which eliminates the risk of induced hazards in relation to potential gas emissions</p> <p>3.3 Incorporate gas monitoring systems to minimise the potential hazards of gas</p> <p>3.4 Incorporate ventilation systems and controls to minimise the risk of gas leakage</p> <p>3.5 Incorporate contingency systems to mitigate the risks and hazards of gas</p>
<p>4. Establish the gas management system</p>	<p>4.1 Establish gas management system objectives, descriptions and responsibilities and incorporate into the management system</p> <p>4.2 Identify, develop and establish hazard control procedures associated with gas management</p> <p>4.3 Establish gas management monitoring system installation, operation and maintenance procedures</p> <p>4.4 Establish gas control device installation, operation and</p>

	<p>maintenance procedures</p> <p>4.5 Establish gas management system information recording and reporting procedures</p> <p>4.6 Determine and review action levels and responses to minimise the hazards of gas</p> <p>4.7 Establish gas emergency and evacuation procedures</p> <p>4.8 Establish a program, including systems and procedures, to satisfy identified gas management training requirements</p> <p>4.9 Develop and establish, audit, review and update procedures</p>
5. Plan and prepare for the implementation of the gas management system	<p>5.1 Identify, clarify and communicate to all personnel roles and responsibilities, as specified in the gas management system</p> <p>5.2 Identify, forecast, obtain and allocate/schedule resources required for the implementation of the gas management system</p> <p>5.3 Implement the gas management training program</p> <p>5.4 Review gas management system implementation procedures, and implement required changes</p>
6. Audit and review the gas management system	<p>6.1 Audit mine gas monitoring systems operations for compliance</p> <p>6.2 Audit mine gas control devices for compliance</p> <p>6.3 Audit recording systems for compliance</p> <p>6.4 Audit the maintenance program and procedures for compliance</p> <p>6.5 Audit gas management training program for currency, relevance and compliance</p> <p>6.6 Establish procedures for response to instances of non-compliance or other discrepancies/deficiencies revealed by audit</p> <p>6.7 Identify and respond promptly to instances of non-compliance or other discrepancies/deficiencies revealed by audit</p> <p>6.8 Maintain written records, reports and policy documentation</p> <p>6.9 Identify and evaluate future gas management requirements and incorporate into planning procedures as stipulated by the gas management system</p>

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIIMCU602A Establish and maintain the gas management plan

Links

SkillsDMC RII Companion Volumes - <http://www.skillsdmc.com.au/>