



**Australian Government**

# **RIIMCU601D Establish and maintain the spontaneous combustion management plan**

**Release: 2**

## RIIMCU601D Establish and maintain the spontaneous combustion management plan

### Modification History

Release	Comment
1	This unit replaces RIIMCU601A Establish and maintain the spontaneous combustion management plan
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

### Application

This unit describes a participant's skills and knowledge required to establish and maintain the spontaneous combustion management plan 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

1. Plan and prepare to establish and maintain the spontaneous combustion management plan	<p>1.1 Access, interpret and apply spontaneous combustion management plan documentation, and ensure the work activity is compliant</p> <p>1.2 Identify the causes and hazards of spontaneous combustion</p> <p>1.3 Identify and clarify coal seam characteristics which affect likelihood of spontaneous combustion</p> <p>1.4 Identify and clarify the effects of changes in the mine atmosphere on the risks of spontaneous combustion</p> <p>1.5 Identify the impact of mine design and ventilation on the risks of spontaneous combustion</p>
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	<p>1.6 Identify and clarify the impact of water accumulation on the risks of spontaneous combustion</p> <p>1.7 Identify spontaneous combustion risks associated with the planned and unplanned coal accumulation</p> <p>1.8 Identify spontaneous combustion risks associated with transport of coal</p>
<p>2. Identify and clarify spontaneous combustion control systems and procedures</p>	<p>2.1 Identify and evaluate the method, purpose and procedures for installation and use of mine monitoring systems with regard to spontaneous combustion</p> <p>2.2 Identify and evaluate the method, purpose and procedures for mine design and ventilation systems with regard to spontaneous combustion</p> <p>2.3 Identify and evaluate the methods and purposes of natural and induced inertisation in the goaf and waste workings, in relation to spontaneous combustion</p> <p>2.4 Identify and clarify the scope and impact of gas management on spontaneous combustion</p> <p>2.5 Identify and clarify the scope, impact and uses of water management, including water infusion on spontaneous combustion</p> <p>2.6 Identify and clarify seal design requirements in terms of geological structures, construction, location and use of correct materials for the spontaneous combustion risks</p>
<p>3. Design and develop the spontaneous combustion management plan</p>	<p>3.1 Access, interpret and apply spontaneous combustion management plan documentation</p> <p>3.2 Identify, clarify and apply the principles of mine design with respect to spontaneous combustion</p> <p>3.3 Review the effectiveness of mine design process in contributing to the minimisation of the risk of spontaneous combustion and amend the processes as required</p> <p>3.4 Incorporate ventilation systems and controls to minimise the risk of spontaneous combustion into the development of the management system</p> <p>3.5 Evaluate inertisation options that are applicable to the mine and incorporate into the development of the system</p> <p>3.6 Incorporate mine monitoring systems into the management system to minimise the risk of spontaneous combustion</p> <p>3.7 Develop and incorporate control methods into contingency plans to mitigate the effect of a spontaneous combustion occurrence</p>
<p>4. Establish the spontaneous</p>	<p>4.1 Establish spontaneous combustion management objectives,</p>

<p>combustion management plan</p>	<p>processes, descriptions, responsibilities and review procedures</p> <p>4.2 Identify, develop and establish hazard control procedures</p> <p>4.3 Develop and establish spontaneous combustion management monitoring system installation, operation and maintenance procedures</p> <p>4.4 Develop and establish ventilation control device installation, operation and maintenance procedures</p> <p>4.5 Develop and establish inertisation procedures</p> <p>4.6 Develop and establish spontaneous combustion system information recording and reporting procedures</p> <p>4.7 Establish and review trigger levels and responses to minimise the hazards of spontaneous combustion</p> <p>4.8 Establish a program including systems and procedures, to satisfy identified spontaneous combustion management training requirements</p> <p>4.9 Develop and establish audit, review and updating procedures into the spontaneous combustion management plan</p>
<p>5. Plan and prepare for the implementation of the spontaneous combustion management plan</p>	<p>5.1 Identify, interpret and confirm the legislative and site requirements</p> <p>5.2 Access, interpret and clarify the spontaneous combustion management plan</p> <p>5.3 Identify, clarify and communicate to all personnel roles and responsibilities</p> <p>5.4 Identify, forecast, obtain and allocate/schedule resources</p> <p>5.5 Implement the spontaneous combustion training program</p> <p>5.6 Review the spontaneous combustion management implementation procedures, and implement required changes</p>
<p>6. Audit and review the spontaneous combustion management plan</p>	<p>6.1 Audit the operation of spontaneous combustion monitoring systems for compliance with legislative and gas management plan standards</p> <p>6.2 Audit mine ventilation control devices for compliance</p> <p>6.3 Audit recording and reporting systems for compliance</p> <p>6.4 Audit the maintenance program and procedures for compliance</p> <p>6.5 Audit spontaneous combustion training program for currency, relevance and compliance</p> <p>6.6 Identify and respond promptly to instances of non-compliance or other discrepancies/deficiencies revealed by audit</p> <p>6.7 Maintain written records, reports and policy documentation</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

RIIMCU601A Establish and maintain the spontaneous combustion management plan

## Links

Companion Volume implementation guides are found in VETNet -

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