



**Australian Government**

# **RIIMCU408E Apply the spontaneous combustion management plan**

**Release: 1**

# RIIMCU408E Apply the spontaneous combustion management plan

## 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 apply the spontaneous combustion management plans in underground coal mining. It includes applying mine atmosphere monitoring systems and procedures and spontaneous combustion control measures.

It applies to those working in supervisory roles. They generally perform a broad range of operational activities in their area of responsibility and are responsible for monitoring a safe work environment.

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 apply spontaneous combustion management plan	1.1 Obtain, interpret, clarify and confirm work requirements 1.2 Access, interpret and apply spontaneous combustion management plan documentation and confirm work activity is compliant 1.3 Identify, clarify and communicate roles and responsibilities to personnel involved according to spontaneous combustion management plan 1.4 Identify and obtain resources required to apply spontaneous combustion plan 1.5 Identify training needs for personnel involved according to

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
	spontaneous combustion management plan and within scope of own role
2. Identify and explain fundamentals of spontaneous combustion hazards and risks	2.1 Identify fundamentals of spontaneous combustion 2.2 Identify and explain effects of mine gases and barometric variations in terms of spontaneous combustion risks 2.3 Identify and explain hazards associated with goaf and waste working atmosphere in terms of spontaneous combustion risks 2.4 Identify impact of ventilation and ventilation structures in terms of spontaneous combustion risks 2.5 Identify spontaneous combustion risks associated with coal stowage
3. Identify and explain the fundamentals of spontaneous combustion control systems and procedures	3.1 Identify principles of ventilation design and related procedures and their impact on spontaneous combustion management 3.2 Identify methods and purposes of natural and induced inertisation in goaf and waste workings in terms of spontaneous combustion risks 3.3 Identify method, purpose, operation and procedures for installation of mine atmosphere monitoring systems in terms of spontaneous combustion risks
4. Identify and apply resources to spontaneous combustion management plan	4.1 Identify, access, interpret and apply legislative and site requirements 4.2 Identify, interpret and apply procedures and own responsibilities according to spontaneous combustion management plan 4.3 Monitor actions of work group to confirm spontaneous combustion procedures are carried out according to spontaneous combustion plan 4.4 Identify situations where trigger levels are reached and apply response procedures to situations according to spontaneous combustion plan 4.5 Participate in development and review of spontaneous combustion management procedures according to spontaneous combustion plan and site requirements
5. Identify and respond to spontaneous combustion indicators	5.1 Identify, monitor and investigate spontaneous combustion indicators according to spontaneous combustion plan and site requirements 5.2 Respond to and report on indicators according to spontaneous combustion plan and site requirements
6. Apply mine atmosphere monitoring systems and procedures	6.1 Conduct mine atmosphere monitoring, interpret results and prepare and process reports according to site requirements 6.2 Identify and report defects to monitoring systems and, where appropriate affect repairs as required according to site requirements
7. Apply spontaneous combustion control measures	7.1 Identify, investigate and report changes in ventilation that may affect spontaneous combustion according to site requirements 7.2 Report incidents of connection to other workings and take action according to spontaneous combustion management plan and site

ELEMENT	PERFORMANCE CRITERIA
	requirements 7.3 Identify, rectify and report defects to ventilation structures and seals according to spontaneous combustion management plan and site requirements 7.4 Identify hazards associated with coal accumulations and transport systems and apply action according to spontaneous combustion management plan and site requirements 7.5 Apply spontaneous combustion emergency and evacuation procedures according to spontaneous combustion management plan and site requirements

## 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
Numeracy	<ul style="list-style-type: none"> <li>Calculates resourcing requirements and performs mathematical calculations</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Conveys information and requirements clearly and listens actively</li> </ul>
Reading	<ul style="list-style-type: none"> <li>Identifies and interprets relevant information from workplace procedures, documentation and legislation</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Prepares specific information that complies with requirements, using sector-specific vocabulary, grammatical structures and conventions</li> </ul>

## Unit Mapping Information

Supersedes and is equivalent to RIIMCU408D Apply the spontaneous combustion management plan.

## Links

Companion Volume Implementation Guide is found on VETNet -

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