



**Australian Government**

**Assessment Requirements for  
RIIMCU601D Establish and maintain the  
spontaneous combustion management plan**

**Release: 1**

## **Assessment Requirements for RIIMCU601D Establish and maintain the spontaneous combustion management plan**

### **Modification History**

Not applicable.

## Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include that the candidate:

- locates and applies relevant legislation, documentation, policies and procedures
- implements the procedures and techniques for the safe, effective and efficient establishment and maintenance of the spontaneous combustion management plan including:
  - accessing, interpreting and applying:
    - technical information
    - site/legislative requirements
    - records and reports
    - briefings and handover details
    - applying the principles of mine design
    - assessing the risks and consequences of spontaneous combustion
- works effectively with others to undertake and complete the establishment and maintenance of the spontaneous combustion management plan including:
  - communicating clearly and concisely with others to plan and coordinate work, receive and clarify work instructions, and convey work progress.
  - identifying the relevant information and scope of the work necessary to meet the required outcomes
  - developing procedures appropriate to mine operations for management of spontaneous combustion
- demonstrates consistent timely establishment and maintenance of the spontaneous combustion management plan that safely, effectively and efficiently meet all of the required outcomes on a minimum of one (1) occasion including:
  - establishing and incorporating spontaneous combustion management objectives, processes, descriptions, responsibilities and review procedures
  - identifying viable options and selecting spontaneous combustion management techniques that best meet the required outcomes
  - identifying training needs related to spontaneous combustion
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## Knowledge Evidence

The candidate must demonstrate knowledge in establishing and maintaining the spontaneous combustion management plan through:

- mine design relating to spontaneous combustion including:
  - identifying the effects of coal seam characteristics on spontaneous combustion
  - identifying and reviewing inertisation principles and techniques
  - evaluating geological data
  - evaluating strata control
  - evaluating underground water management
  - evaluating seal design and sealing procedures
- spontaneous combustion management requirements including:

- identifying and managing causes and effects of spontaneous combustion
- identifying and monitoring spontaneous combustion indicators and ratios
- implementing methods of control of spontaneous combustion
- the principles of ventilation management including:
  - mine gases and gas management
  - mine ventilation systems
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## Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit must be assessed in the context of this sector's work environment; and,
- this unit must be assessed using Resources and Infrastructure Industry sector specific policies, procedures, processes and operational manuals; and,
- an assessor must demonstrate the skills and knowledge of this unit through twelve (12) month work experience in an Industry relevant to the skills being assessed within the last three (3) years; and,
- where the assessor does not have current experience a co-assessment or partnership arrangement needs to exist between the qualified assessor and an Industry technical expert/ subject matter expert. The Industry technical expert/subject matter expert must demonstrate competency in the unit being assessed, and be currently working in the sector with a minimum of twelve (12) months' work experience within the last three (3) years.
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## Links

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