



Australian Government

Assessment Requirements for RIIMCU601E Establish and maintain spontaneous combustion management systems

Assessment Requirements for RIIMCU601E Establish and maintain spontaneous combustion management systems

Modification History

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

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- establish and maintain spontaneous combustion management systems on at least two occasions, 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 required outcomes
 - identifying training needs relating to spontaneous combustion risk minimisation and confirming training plans are established according to site requirements.

During the above, the candidate must:

- locate and apply relevant legislation, documentation, policies and procedures and confirm work activity is compliant
- implement procedures and techniques for establishing and maintaining spontaneous combustion management systems, including accessing, interpreting and applying:
 - technical information
 - legislative and site requirements
 - records and reports
 - briefings and handover details
 - principles of mine design
 - methods to assess the risks and consequences of spontaneous combustion
- work effectively with others to establish and maintain spontaneous combustion management systems, 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 required outcomes

- developing procedures appropriate to mine operations for management of spontaneous combustion.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- key legislation required to establish and maintain spontaneous combustion management systems
- key procedures and documentation required to establish and maintain spontaneous combustion management systems
- principles of mine design relating to spontaneous combustion, including techniques for:
 - 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 techniques for:
 - identifying and managing causes and effects of spontaneous combustion
 - identifying and monitoring spontaneous combustion indicators and ratios
 - implementing methods of control of spontaneous combustion
 - auditing and reviewing spontaneous combustion management systems
- principles of ventilation management, including:
 - mine gases and gas management
 - mine ventilation systems
- key external agencies
- principles, processes and techniques for emergency response, evacuation and disaster planning
- techniques for identifying training needs and plans
- techniques for leading and coordinating work activities with others.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - spontaneous combustion management plan
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,

- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 years

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no industry standard is specified should comply with any relevant regulation.	

*Guidance on simulated environments has been stipulated in the Companion Volume Implementation Guide located on VETNet.

**Assessors can demonstrate current work experience through employment within industry in a role relevant to the outcomes of the unit; or, for external assessors this can be demonstrated through exposure to industry by conducting a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

Links

Companion Volume Implementation Guide is found on VETNet -

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