



Australian Government

Assessment Requirements for RIIMCU305E Conduct outburst mining operations

Release: 1

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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:

- conduct outburst mining operations on at least two occasions, including:
 - completing strata control operations
 - completing outburst pre-operational checks, including those relating to:
 - emergency equipment bases
 - miners
 - shuttle cars
 - services
 - monitoring environment for conditions, including:
 - stretch marks
 - cutters
 - calcite bands
 - coal changing colour
 - mylonite
 - coal softening/hardening
 - dyke stringers
 - cindered coal
 - change in gas make/type.

During the above, the candidate must:

- locate and apply relevant documentation, policies and procedures and confirm work activity is compliant
- implement the requirements, procedures and techniques for outburst mining operations, including:
 - reading, interpreting and applying mine rescue procedures and manager's rules

- applying resuscitation
- testing and interpreting gases
- reading/identifying geological change
- operating communications system
- operating breathing apparatus
- applying rescue techniques
- accessing, reading and interpreting outburst management plan
- work effectively with others to undertake and complete outburst mining operations in a way that meets required outcomes, including:
 - organising work activities to meet task requirements
 - communicating clearly and concisely with others to receive and clarify work instructions
 - complying with reporting requirements and procedures
 - determining coordination requirements throughout work activities.

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 conduct outburst mining operations
- key policies, procedures and documentation required to conduct outburst mining operations
- principles and techniques for operating fresh air bases and emergency equipment stations
- principles and techniques for monitoring and responding to mine geological conditions, including the following conditions:
 - stretch marks
 - cutters
 - calcite bands
 - coal changing colour
 - mylonite
 - coal softening/hardening
 - dyke stringers
 - cindered coal
 - change in gas make/type
- principles and techniques for applying mining methods and sequence, including outburst pre-operational checks relating to:
 - emergency equipment bases
 - miners
 - shuttle cars
 - services
- principles and techniques for conducting strata control operations

- techniques for accessing, interpreting and applying outburst management plans, including aspects relating to:
 - ventilation
 - prediction procedures
 - mining systems and procedures
 - site-specific information
 - authority to mine
- techniques for accessing and applying outburst manning equation
- techniques for accessing and applying pre-drilling data
- characteristics, technical capabilities and limitations of equipment required for outburst mining operations, including:
 - special miners (outburst fitted)
 - filtered air systems
 - compressed air breathing equipment
 - air supply to face workers
 - relevant manual and remote machine operations
- techniques for applying geological and survey data, including:
 - ventilation/gas data
 - deputy reports
 - geological hazard plan
 - survey data
- principles and techniques for identifying and responding to relevant hazards and emergencies
- site requirements for housekeeping, completing maintenance records and reporting requirements
- techniques for coordinating and communicating job activities with others.

Assessment Conditions

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

- include access to:
 - personal protective equipment
 - equipment required to conduct outburst mining operations
- 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
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter expert experience should	

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
		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>