



Australian Government

Assessment Requirements for RIIMCU301E Conduct specialised strata control 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 specialised strata control operations on at least two occasions in abnormal strata conditions, including:
 - scaling down roofs and ribs
 - drilling holes for rib and roof bolt installation
 - installing and securing supports.

During the above, the candidate must:

- locate and apply relevant documentation, policies and procedures and confirm to work activity is compliant
- implement the requirements, procedures and techniques for conducting specialised strata control operations, including:
 - identifying and minimising environmental issues, potential hazards and risks
 - selecting and using relevant tools and equipment
 - complying with environmental requirements and constraints
 - identifying work requirements
 - applying diagnostic and fault finding techniques
 - interpreting and applying mine plans
 - identifying specialised support equipment and materials
 - operating specialised support equipment
 - installing specialised supports
- work effectively with others to conduct specialised strata control 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 basic strata control operations
- key policies, procedures and documentation required to conduct specialised strata control operations
- principles and techniques for interpreting and applying support rules/plan of manager
- types, uses and limitations of specialised strata control systems, including principles and techniques for:
 - scaling down roofs and ribs
 - drilling holes for rib and roof bolt installation
 - installing and securing supports, including:
 - cable bolts
 - flexibolts
 - mega bolts
 - polyurethane injections
 - shotcretes
 - arching/square sets
 - cogs (timber, fibre, crib, cans)
 - spialling/fore poling
- characteristics, technical capabilities and limitations of key equipment required to conduct specialised strata control operations
- principles and techniques for identifying and monitoring specialised strata hazards, including:
 - telltales
 - extensometers
 - visual or electronic measurements
 - convergence measurements
- mine environmental, geological and survey data required for job activities, including:
 - ventilation/gas data
 - deputy reports
 - geological hazard plans
- principles and techniques for complying with:
 - site environmental requirements and constraints related to specialised support operations
 - safety data sheet (SDS) procedures related to support operations

- principles and techniques for identifying and responding to relevant hazards and emergencies, including those related to:
 - personal injury
 - gas accumulation
 - roof, rib and floor conditions
 - chemical hazards
 - stored energy
- 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 specialised strata control 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 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>