



Australian Government

RIIMCU506D Implement the strata management plan

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIMCU506A Implement strata management plan
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to implement strata management plan in Coal mining.

This unit is appropriate for those working in supervisory roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Coal mining (Underground)

Elements and Performance Criteria

1. Plan and prepare for the implementation of the strata management plan	1.1 Access, interpret and apply strata management plan implementation documentation and ensure the work activity is compliant 1.2 Identify and communicate the roles and responsibilities, as specified in the strata management plan 1.3 Identify, forecast, schedule and record resources required for the implementation of the strata management plan 1.4 Identify training needs 1.5 Identify and interpret the risks associated with unstable mining structures
2. Implement the strata management plan	2.1 Implement the system of mining in accordance with the strata management plan

	2.2 Communicate primary, secondary and other support requirements in accordance with the strata management plan 2.3 Implement and communicate mining sequences in accordance with the strata management plan 2.4 Obtain resources and allocate in accordance with the strata management plan 2.5 Implement the strata management plan training requirements 2.6 Implement the maintenance program in accordance with the strata management plan 2.7 Implement the strata monitoring and testing system in accordance with the strata management plan 2.8 Monitor procedures in accordance with the strata management plan 2.9 Implement reporting and recording systems in accordance with the strata management plan and legislative requirements 2.10 Implement the emergency response and evacuation plan
3. Audit and review the effectiveness of the strata management plan	3.1 Audit stable structure controls for compliance with legislative and strata management plan specifications 3.2 Audit the strata monitoring and testing systems in accordance with legislative and the strata management plan 3.3 Audit recording and reporting systems in accordance with legislative and site requirements 3.4 Audit system maintenance program and procedures in accordance with legislative and site requirements 3.5 Audit the strata management training plan for currency, relevance and compliance with the strata management plan

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIIMCU506A Implement the strata management plan

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for RIIMCU506D Implement the strata management plan

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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 evidence that the candidate:

- locates and applies relevant legislation, documentation, policies and procedures
- implements the procedures and techniques for the safe, effective and efficient implementation of the strata management plan including:
- accessing, interpreting and applying technical information relating to strata management including:
 - interpreting and applying design criteria
 - identifying and evaluating geological and geotechnical information
 - accessing and analysing historical strata management information related to mine and failure mode of mine structures
- works with others to undertake and complete the implementation of the strata management plan that meets all of the required outcomes including:
 - communicating clearly and concisely with others to receive and clarify work instructions, and convey work progress
 - preparing operating procedures relating to strata management
 - identifying the relevant information and scope of the work necessary to meet the required outcomes
- demonstrates completion of implementing strata management plan that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identifying viable options and selecting the inrush management plan elements that best meet the required outcomes

- conducting audits and preparing reports

Knowledge Evidence

The candidate must demonstrate knowledge of implementing strata management plan through:

- systems of mining including:
 - tunnels, drifts, stone drivage, shaft sinking, pillar extraction, partial extraction, punch mining, longwall mining (including installation and recovery), the use of breaker line support and fault drivage
 - strata support and monitoring systems
- factors affecting stability of mining structures including:
 - geology and strata gas characteristics
 - lithology
 - sedimentology: including subsidence, water bearing strata, permeability of seam and strata, hydrology, rock property testing, caving characteristics, windblast, outburst, gas content and over and underlying strata
 - mining structure failure modes

stress including: mining induced stress, vertical and horizontal stress, tectonics, and topographical features

- systems of work including:
 - bord and pillar, place changing, longwall, highwall, auger mining, pillar extraction, partial extraction, the use of breaker line support and punch mining
- mining engineering principles including:
 - exploration techniques
 - audit methodologies
 - limitations and controls

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 in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,

- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 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.	

*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 frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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