



Australian Government

RIIMCU606D Establish and maintain the mining method and strata management systems

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIMCU606A Establish and maintain the mining method and strata management systems.
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 establish and maintain the mining method and strata management systems in Coal mining (Underground).

This unit is appropriate for those working in management 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 to establish and maintain the mining method and strata management system	1.1 Access, interpret and apply mining method and strata management system documentation, and ensure the work activity is compliant 1.2 Identify and record the necessary resources required to create and maintain a stable mining structure 1.3 Identify and evaluate historical information relating to the mine site 1.4 Identify, assess and record possible mining structure failure modes relevant to the mine site 1.5 Determine the criteria for establishing the stability of mining
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	structures 1.6 Identify the hazards and analyse the risks associated with failures of mining structures 1.7 Identify and assess the limitations and controls applying to design of stable mining structures
2. Identify and evaluate geological and geotechnical information to establish a stable mining structure	2.1 Identify and determine exploration techniques to gain information about geological, hydrological and geotechnical conditions 2.2 Identify and evaluate geological, geotechnical and hydrological information 2.3 Identify and evaluate strata gas information 2.4 Identify and evaluate roof, seam and floor lithological and physical properties information 2.5 Identify and evaluate stress regimes information
3. Identify and evaluate mining engineering principles and practices	3.1 Identify and evaluate mining system types and methods 3.2 Identify potential layouts for stable mining structures from engineering analysis 3.3 Identify and evaluate mining constraints impacting on the development of a stable mining structure 3.4 Identify and evaluate equipment requirements, appropriate for the development and maintenance of a stable mining structure 3.5 Identify the effects of mining induced subsidence on surface areas
4. Identify, evaluate and determine the strata control systems	4.1 Identify, evaluate and determine ground support systems. 4.2 Identify, evaluate and determine ground support installation and monitoring systems 4.3 Identify and evaluate causes and impacts of strata failure mechanisms 4.4 Identify and evaluate natural and induced stress control methods
5. Establish the strata management plan	5.1 Design and establish methods of entry to the coal seam 5.2 Design and establish systems of mining 5.3 Design and establish sequences for mining operations 5.4 Design and establish strata management procedures 5.5 Identify the training needs and establish a training plan 5.6 Establish action response plans for the management of strata

	movement
6. Plan and prepare for the implementation of the mining method and the strata management systems	6.1 Access, interpret and clarify the mining method and the strata management system 6.2 Identify and communicate to all personnel roles and responsibilities 6.3 Identify, forecast, obtain and allocate/schedule resources required 6.4 Develop the implementation process for the training plan 6.5 Develop the monitoring and review processes for the strata management system
7. Establish the process to audit the effectiveness of the strata management system	7.1 Audit mining structures for stability 7.2 Audit monitoring systems 7.3 Audit compliance to action response plans 7.4 Audit recording and reporting systems 7.5 Audit maintenance program and procedures 7.6 Audit the training plan for currency, relevance and compliance 7.7 Establish procedures for response to instances of non-compliance or other discrepancies/deficiencies revealed by audit

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

RIIMCU606A Establish and maintain the mining method and strata management systems

Links

Companion Volume implementation guides are found in VETNet -

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