



Australian Government

RIIMEX602D Establish and maintain surface mining ground control and slope stability systems

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIMEX602A Establish and maintain surface mining ground control and slope stability 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 surface mining ground control and slope stability systems in Coal and Metalliferous mining.

This unit is appropriate for those working in management or technical specialist roles.

No licensing, legislation or certification requirements apply to this unit at the time of publication.

Unit Sector

Coal mining

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare to establish and maintain surface mining ground control and slope stability systems	1.1 Access, interpret and apply surface mining ground control and slope stability systems documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential risks, hazards and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for work activities 1.5 Identify, access and interpret mine survey data and historical information
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	1.6 Identify the necessary resources to assess ground control and slope stability issues 1.7 Review actual and predicted ground control and slope stability performance in the mine 1.8 Identify the criteria for establishing ground control and slope stability to acceptable performance levels
2. Identify and evaluate geological and geotechnical information	2.1 Identify, interpret and confirm all relevant geological, geotechnical, hydrogeological data 2.2 Coordinate further exploration, monitoring, sampling or testing to assist assessment of ground control and slope stability issues 2.3 Identify and assess potential ground movement and slope instability situations 2.4 Identify and evaluate overburden and inter-seam characteristics and physical properties 2.5 Identify, confirm and evaluate stress regimes, blast vibration and seismic activity
3. Identify and evaluate mining engineering methods	3.1 Evaluate the impact of mining system types and methods on ground control and slope stability 3.2 Identify and assess layouts to improve ground control and slope stability from engineering analysis 3.3 Identify and evaluate mining constraints impacting on the development of ground control and slope stability options 3.4 Identify and evaluate equipment requirements
4. Identify and evaluate control options	4.1 Identify water control methods to improve ground control or slope stability 4.2 Identify, evaluate and clarify ground support systems or methods of mining to provide appropriate ground control and slope stability 4.3 Identify and evaluate ground support installation, monitoring and assessment systems 4.4 Identify and evaluate management controls for unacceptable ground movement or slope instability
5. Establish the ground control and slope stability system	5.1 Establish exploration programs identifying geological features and characteristics impacting on ground control and slope stability 5.2 Investigate, confirm and establish safe access and egress methods 5.3 Establish systems and sequences of safe mining

	5.4 Establish monitoring systems of ground movement and slope instability to warn, control operations and record events 5.5 Prepare and implement training plans and programs 5.6 Investigate, confirm and establish emergency response and evacuation plans and procedures 5.7 Identify, confirm, establish and implement safe operating procedures
6. Audit and review the effectiveness of the system	6.1 Monitor ground movement and slope stability measurements against defined acceptable standards 6.2 Audit emergency response and evacuation plans and procedures 6.3 Identify, assess and incorporate future site mining requirements into the planning procedures to maintain appropriate standard of the ground control and slope stability systems 6.4 Establish procedures for response to instances of non-compliance or other discrepancies/deficiencies revealed by audit 6.5 Regularly review performance of the ground control and slope stability system

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

RIIMEX602A Establish and maintain surface mining ground control and slope stability systems

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>