

RIIMEX603D Establish and maintain underground mining ground control and stable mining systems

Release: 2

RIIMEX603D Establish and maintain underground mining ground control and stable mining systems

Modification History

Release	Comment
1	This unit replaces RIIMEX603A Establish and maintain underground mining ground control and stable mining 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 underground mining ground control and stable mining systems in 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

Metalliferous mining

Elements and Performance Criteria

m m ar	1. Plan and prepare to establish and maintain underground mining ground control and stable mining systems	control	Access, interpret and apply underground mining ground and stable mining systems documentation and ensure the work is compliant
		1.2	Obtain, read, interpret, clarify and confirm work requirements
			Identify and address potential risks, hazards and mental issues and implement control measures
		1.4 work a	Select and wear personal protective equipment appropriate for ctivities
		1.5	Identify, collect, access and interpret mine survey data
		1.6 and ma	Identify and record the necessary resources required to create intain a stable mining structure

Approved Page 2 of 4

	1.7 Identify, access and interpret mine survey data and historical information			
	1.8 Identify, assess and record all possible mining structure failure modes relevant to the mine site			
	1.9 Establish the criteria for establishing the quantitative stability of mining structures			
2. Identify and	2.1 Access, identify, interpret and evaluate exploration techniques			
evaluate geological and geotechnical	2.2 Access, identify, interpret and evaluate geological structures			
information	2.3 Access, identify, interpret and evaluate hydrogeological features			
	2.4 Identify, interpret and evaluate hanging wall, foot wall, ore body characteristics and physical properties			
	2.5 Identify, interpret and evaluate stress regimes			
3. Identify and evaluate mining	3.1 Investigate, identify, interpret and evaluate types of mining system and methods			
engineering principles and practices	3.2 Identify and assess layouts for stable mining structures from engineering analysis			
	3.3 Identify, interpret and evaluate mining constraints impacting on the development of a stable mining structure			
	3.4 Identify, interpret and evaluate equipment requirements			
4. Identify and evaluate control options	4.1 Investigate, identify, interpret and evaluate ground support systems			
	4.2 Identify, interpret and evaluate ground support installation, monitoring and assessment systems			
	4.3 Identify, interpret and evaluate causes and impacts of failure mechanisms			
	4.4 Identify, interpret and evaluate natural and induced stress control methods			
5. Establish ground control and stable mining systems	5.1 Design and establish exploration programs identifying geological features and characteristics impacting on mining operations			
	5.2 Investigate and design safe access and egress systems Design and establish mining systems			
	5.3 Design and establish sequences for mining operations			
	5.4 Design and establish system specifications and documentation			
	5.5 Establish a program, including systems and procedures to satisfy identified training requirements			

Approved Page 3 of 4

	5.6 proced	Establish emergency response and evacuation plans and ures
	5.7 proced	Identify, confirm, establish and implement safe operating ures
6. Audit and	6.1	Audit stable structure standards
review the effectiveness of ground	6.2	Audit mine survey data
control and stable	6.3	Audit monitoring systems
mining systems	6.4	Audit recording systems
	6.5	Audit system maintenance program and procedures
	6.6	Audit emergency procedures and plans
	6.7 currence	Audit the stable mining structure training program for by and relevance
	6.8 proced	Audit emergency response and evacuation plans and ures
	6.9 standar	Identify and assess future site mining requirements and ds and incorporate into the planning procedures
	6.10	Establish procedures for response to 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

RIIMEX603A Establish and maintain underground mining ground control and stable mining systems

Links

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

Approved Page 4 of 4