



Australian Government

RIIMEX404D Apply and monitor systems for stable mining

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIMEX404B Apply and monitor systems for stable mining
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 apply and monitor systems for stable mining in Metalliferous mining.

This unit is appropriate for those working in supervisory roles.

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

Unit Sector

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare for the application of systems for stable mining	1.1 Access, interpret and apply systems for stable mining operations 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 Obtain and interpret emergency procedures, and be prepared for an emergency 1.6 Communicate and coordinate activities with others prior to, during and on completion of the work activity 1.7 Identify, obtain and allocate resources required for the application of the design system
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	1.8 Identify training needs of team members and prepare training plans
2. Apply the design system	2.1 Communicate, apply and monitor approved design system 2.2 Communicate and apply primary, secondary and other support systems 2.3 Identify and assess mining constraints impacting on the maintenance of a stable mining structure in accordance with the design system 2.4 Install, monitor and assess ground support systems 2.5 Identify and assess system failures 2.6 Apply and monitor mining sequences in accordance with the design system 2.7 Identify and assess virgin and induced stress control methods 2.8 Continually monitor hazards and risks , and ensure safety of self, other personnel, plant and equipment 2.9 Contribute to systems audit and review requirements
3. Apply design system monitoring and maintenance procedures	3.1 Schedule and carry out inspection, repair and maintenance activities 3.2 Record, report and review maintenance and monitoring requirements and activities 3.3 Submit reasoned recommendations to improve the safety, efficiency and effectiveness of systems for stable mining

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

RIIMEX404B Apply and monitor systems for stable mining

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 RIIMEX404D Apply and monitor systems for stable mining

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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 requirements, procedures and techniques for the safe, effective and efficient applying and monitoring of systems for stable mining including:
 - analysing hazards and risks, and implementing control measures
 - accessing and analysing archival and historical mine management information related to the mine and failure mode of mine structures
 - interpreting and applying design criteria for mine management
 - conducting and reporting on audits
 - identifying and evaluating geological and geotechnical information
- works effectively with others to undertake and complete the applying and monitoring of systems for stable mining that meets all of the required outcomes including:
 - complying with written and verbal reporting requirements and procedures
 - providing leadership and direction to the team by communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to resolve coordination requirements prior to commencing and during work activities
 - identifying the training needs of others and preparing training plans
- demonstrates completion of applying and monitoring systems for stable mining that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - assessing and assigning appropriate plant and equipment

- developing and administering work plans
- monitoring installation of ground support systems, and making required adjustments for variances and non-achievement of outcomes
- assessing outcomes to make reasoned recommendations and writing reports
- preparing training plans

Knowledge Evidence

The candidate must demonstrate knowledge of applying and monitoring systems for stable mining through:

- work, health and safety
- mining structures including: mine plans, ventilation, gas monitoring, strata support and safety management plans
- applying risk management processes
- identifying and managing environmental issues, risks and implementing control measures
- identifying and applying emergency response and evacuation planning processes and techniques
- assessing plant and equipment capabilities and application
- implementing plant, equipment and tools maintenance requirements and procedures
- applying training and assessment principles

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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