



Australian Government

RIIMEX502D Implement systems and methods of mining

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIMEX502A Implement systems and methods of mining.
2	Performance Criteria numbering corrected. 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 systems and methods of mining in Metalliferous mining.

This unit is appropriate for those working in management or technical specialist 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 implementation of mine design systems	1.1 Access, interpret and apply mine design 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, clarify and communicate the roles and responsibilities of individuals and work teams 1.6 Communicate and coordinate activities with others prior to, during and on completion of the work activity 1.7 Identify, forecast and record resources required for the implementation of the design system
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	1.8 Identify training needs of individuals involved and develop training plans 1.9 Identify and interpret the risks associated with unstable mining structures
2. Implement the mine design system	2.1 Communicate primary, secondary and other support systems 2.2 Implement and communicate mining sequences 2.3 Obtain and allocate resources and ensure effective application 2.4 Implement training plans of individuals 2.5 Implement the maintenance program requirements 2.6 Implement the monitoring system requirements 2.7 Implement written reporting and recording system requirements 2.8 Monitor implementation procedures to ensure compliance with the approved plan 2.9 Implement emergency and evacuation plan and procedures
3. Audit and review the effectiveness of the mine design system	3.1 Audit stable structure controls and standards for compliance 3.2 Audit monitoring systems for compliance 3.3 Audit recording and reporting systems 3.4 Audit system maintenance program and procedures 3.5 Audit the design training program for currency, relevance and compliance 3.6 Audit emergency and evacuation plan and procedures for compliance

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

RIIMEX502A Implement systems and methods of 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 RIIMEX502D Implement systems and methods of 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 implementation of the mine design systems including:
 - accessing and evaluating the relevant information and scope of the work necessary to meet the required outcomes
 - identifying and evaluating viable options and selecting options that best meet the required outcomes
 - identifying and evaluating geological and geotechnical information, and exploration techniques
 - 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
 - selecting and assigning plant and equipment, and other resources to operate within capabilities and limitations
 - analysing hazards and risks, and applying mining constraints
- works effectively with others to undertake and complete the implementation of the mine design systems that meets all of the required outcomes including:
 - complying with written and verbal reporting requirements and procedures
 - providing leadership 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 implementing systems and methods of mining that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - applying the mine design system and its parameters and strategies
 - applying analytical process for selecting implementation strategies
 - assessing and prioritising implementation processes
 - developing and reviewing operating procedures relating to mine management
 - conducting and reporting on audits and reviews
 - writing reports to communicate procedural activity, breach or inadequacies to procedure and review process

Knowledge Evidence

The candidate must demonstrate knowledge of implementation of the mine design systems through:

- the organisation and site requirements and procedures for:
 - work, health and safety
 - mining structures including: mine plans, ventilation, gas monitoring, strata support and safety management plans
 - applying and evaluating risk management processes
 - identifying and managing environmental issues, risks and controls
 - identifying and applying emergency response and evacuation planning processes and techniques
- the systems and components for the implementation of mine design systems
- team leadership techniques including:
 - roles and responsibilities of personnel
 - work planning and work monitoring methods
 - recording and reporting systems
 - questioning and active listening

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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