



Australian Government

RIIRAI606D Establish and maintain mine closure management systems

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIRAI606A Establish and maintain mine closure 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 mine closure management systems in Coal 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

Coal mining

Elements and Performance Criteria

1. Plan and prepare to establish mine closure management systems	1.1 Access, interpret and apply mine closure management 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 Identify, collect, access and interpret mine survey data, in accordance with statutory and site requirements 1.5 Access the mine environmental management system, and identify and interpret information related to mine closure 1.6 Identify, evaluate and record historical information relating to the mine site
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	1.7 Identify, assess and interpret all possible mining structure failure modes relevant to the mine site 1.8 Identify and record necessary resources required for mine closure
2. Identify and evaluate hazards and risks for mine closure	2.1 Identify existing and potential hazards and confirm identification in accordance with environmental legislation, code of practice and trends identified from the environmental management system 2.2 Analyse the risks associated with mine closure 2.3 Identify and assess the limitations and controls applying to mine closure
3. Identify and evaluate geological and geotechnical information for mine closure	3.1 Identify and evaluate geological structures 3.2 Identify and evaluate hydrogeological features 3.3 Identify and evaluate strata characteristics 3.4 Identify and evaluate rock types and ore body features and physical properties 3.5 Identify and evaluate stress regimes
4. Identify and evaluate mining engineering principles and practices	4.1 Identify and evaluate mining system types and methods 4.2 Identify stable mining structures and slope stability from engineering analysis 4.3 Identify and evaluate mining constraints impacting on the stable mining structure and slope stability 4.4 Identify and evaluate equipment requirements, appropriate for the mine closure
5. Establish the mine closure system	5.1 Design and establish the legislative, statutory, legal and site requirements on mine closure 5.2 Design and establish the mine environmental management system for mine closure 5.3 Design and establish the hazards and risk management systems for mine closure 5.4 Design and complete closure system documentation
6. Audit and review the effectiveness of the mine closure system	6.1 Audit the legislative, statutory, legal and site requirements on mine closure for compliance 6.2 Audit the mine environmental management system for mine closure for legal and site compliance 6.3 Audit the hazards and risk management systems for mine closure for compliance with site requirements

	6.4 Audit monitoring systems for compliance with statutory and site standards 6.5 Audit recording systems for compliance with site requirements 6.6 Identify and assess future mine closure requirements and standards and incorporate into future planning procedures 6.7 Establish procedures for response to instances of non-compliance or other discrepancies/deficiencies revealed by audit
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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

RIIRAI606A Establish and maintain mine closure management systems

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 RIIRAI606D Establish and maintain mine closure management systems

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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 procedures and techniques for the safe, effective and efficient completion of the establishing and maintenance of mine closure management systems including:
 - accessing, interpreting and applying technical information
 - accessing, interpreting and applying mine survey information
 - accessing and analysing archival and historical information related to the mine
 - developing and maintaining risk management procedures and policies
 - communicating technical information, rules, procedures, regulations
 - accessing, reading, interpreting and applying legislation
 - providing leadership and guidance for group activities
 - facilitating and documenting risk control planning
 - applying records and document maintenance requirements
 - applying procedures for monitoring and determining changes to process
 - explaining complex information to superiors/subordinates
 - providing coaching and mentoring support
 - adopting communications styles appropriate to listeners and situations, including selecting an appropriate time and place
 - taking a leading role in initiating action and making decisions

- listening actively, asking questions, clarifying points and rephrasing others' statements to check mutual understanding
- works effectively with others to establish and maintain mine closure management systems including:
 - managing people and processes
 - resolving conflict
 - coordinating human, financial and physical resources
 - developing, initiating and administering work plans
 - interpreting and applying operational performance data
 - engaging internal and external stakeholders
- demonstrates completion of the establishment and maintenance of mine closure management systems that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identifying the relevant information and scope of the work
 - identifying and addressing the full range of statutory/legal requirements
 - identifying all aspects of the mine closure management system
- identification and selection of viable options for the establishing and maintenance of an underground mine mechanical plant management system that best meet the required outcomes through:
 - identifying all aspects of geological and hydrogeological information and mining induced stress
 - identifying all stakeholders and managing related interaction/negotiations
 - establishing the audit and review system

Knowledge Evidence

The candidate must demonstrate knowledge in establish and maintain mine closure management systems through:

- legislative, organisation and site requirements and procedures for;
 - community safety control responsibilities
 - environmental management
 - geophysical control systems
 - human resource management
 - mine operation
 - organisational goals and objectives
 - rehabilitation requirements and techniques
 - reporting and recording
 - risk control and management systems
 - work, health and safety
 - statutory/legal controls
- data from organisational systems

- action planning methods
- advanced negotiation skills
- applying advanced written and oral communication methods
- work procedures/instructions

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.
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*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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