



Australian Government

RIIUND602D Establish and maintain mine services systems

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIUND602A Establish and maintain mine services 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 services systems in Coal and Metalliferous mining.

This unit is appropriate for those working in management roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Coal mining

Metalliferous mining

Elements and Performance Criteria

1. Design mine services systems	1.1 Access, interpret and apply mine services systems documentation and ensure the work activity is compliant 1.2 Identify the requirements for, and purpose of, mine services systems 1.3 Develop a specification for the mine services system from a comprehensive analysis of site requirements 1.4 Identify system options from an analysis of all relevant technical, operational and financial information 1.5 Select the preferred service systems options, including reticulation on the basis of performance
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2. Select equipment for mine services systems	2.1 Identify the requirements for, and purpose of, mine services equipment 2.2 Conduct a detailed scoping of the work requirements and develop key selection criteria, including hazard identification and risk analysis 2.3 Develop a specification for the required mine services equipment 2.4 Select the preferred equipment solutions on the basis of performance
3. Establish installation and commissioning procedures	3.1 Establish a procedure to identify hazards and analyse and evaluate risks associated with the installation of mine services systems and equipment 3.2 Plan and prepare for the integration of new and existing systems and processes 3.3 Develop safe operating procedures and rules from a detailed analysis of site requirements 3.4 Develop and establish procedures for installing and commissioning mine services systems and equipment 3.5 Establish a program, including systems and procedures, to satisfy identified mine services training requirements 3.6 Establish emergency response and evacuation systems, plans and procedures 3.7 Establish protection systems
4. Establish systems for the operation and maintenance of mine services systems and equipment	4.1 Develop operational procedures for mine services systems and equipment and incorporate into site documentation 4.2 Develop maintenance procedures for mine services systems and equipment and incorporate into site documentation 4.3 Develop and establish procedures for reviewing and modifying work processes
5. Plan and prepare for the implementation of systems for the operation and maintenance of mine services systems and equipment	5.1 Identify and interpret legislative and site requirements related to the operation and maintenance of mine services systems and equipment 5.2 Access, interpret and clarify mine services systems and equipment procedures 5.3 Identify, clarify and communicate roles and responsibilities 5.4 Identify, forecast, obtain and allocate/schedule required resources 5.5 Implement the mine services systems and equipment

	procedures training program. 5.6 Encourage, receive, review and, where appropriate, implement suggestions and recommendations for changes to the operation and maintenance of mine services systems and equipment procedures
6. Establish systems for audit and review of mine services systems and equipment	6.1 Establish procedures to evaluate and confirm system/equipment compliance 6.2 Identify and assess future mine services systems and equipment requirements and incorporate into planning processes 6.3 Establish procedures to confirm the currency and compliance of mine services maintenance and safety standards 6.4 Establish the system for recording and reporting of mine services and equipment information 6.5 Audit the mine services training program for currency and relevance 6.6 Establish procedures for incorporating feedback into the audit/review system 6.7 Audit emergency response and evacuation systems, plans and procedures for compliance 6.8 Establish procedures for response to instances of 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

RIIUND602A Establish and maintain mine service 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 RIIUND602D Establish and maintain mine services 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 the requirements, procedures and techniques for the safe, effective and efficient establishment and maintenance of mine services systems including:
 - applying the principles of mine design
 - assessing the risks and consequences relevant to mine services systems and equipment
 - identifying training needs
 - interpreting and applying manufacturer's instructions
- demonstrates completion of the establishment and maintenance of mine services systems that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - developing and establishing installation and commissioning procedures
 - developing and establishing procedures to maintain mine service systems and equipment
 - establishing, implementing and auditing systems and procedures
 - reviewing work processes and modify to improve effectiveness and efficiency
 - establish audit and reporting procedures
 - establishing procedures for noncompliance, discrepancies or deficiencies
 - auditing mine service systems and equipment

Knowledge Evidence

The candidate must demonstrate knowledge in establishing and maintaining mine services systems through:

- accessing, interpreting and applying legislative, organisation and site requirements and procedures for:
 - audit reviews
 - emergency response and disaster planning
 - mine plans
 - electrical distribution
 - ventilation
 - compressed air
 - electrical/mechanical equipment
 - inspections
 - environmental management
 - communications
 - emergency situations
 - risk management
 - recording and reporting
 - mines rescue
 - work health and safety
 - manufacturer's instructions
 - standard work procedures
 - training
 - maintenance surveys
 - mine design
 - mine operations including:
 - transport systems
 - conveyor systems
 - systems of mining
 - ventilation systems
 - gas management
 - mine water management
 - stores systems
 - computer based systems
 - fire fighting systems and precautions
 - power sources including electrical, hydraulic, compressed air, diesel
 - safety design features for maintenance of mine services systems
 - safety design features of mine services systems

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 is best assessed in the context of this sector's work environment;
- where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills; 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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