



Australian Government

RIIRAI603D Establish and maintain mine transport systems and production equipment

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIRAI603A Establish and maintain mine transport systems and production equipment
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 transport systems and production equipment 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 mine transport systems and production equipment	1.1 Access, interpret and apply mine transport systems and production equipment 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 the requirements for and purpose of production and transport systems in accordance with the system of mining 1.6 Identify systems options from an analysis of all relevant
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	technical, operational and financial information 1.7 Establish specification for the production and transport system from a comprehensive analysis of operating requirements 1.8 Select the preferred systems options on the basis of performance against specification requirements
2. Select equipment for production and transport systems	2.1 Conduct a detailed scoping of the operational requirement and develop key selection criteria, including hazard identification and risk analysis 2.2 Establish specification for the required production and/or transport equipment 2.3 Select the preferred equipment solutions on the basis of performance against specification requirements
3. Establish installation and commissioning systems and procedures	3.1 Establish systems to identify hazards and analyse and evaluate risks associated with the installation of production and transport systems and equipment 3.2 Plan and prepare for integration of new and existing mine production and transport systems and processes 3.3 Establish procedures for installing and commissioning production and transport systems and equipment 3.4 Establish systems and procedures, to satisfy identified production and transport systems training requirements
4. Establish systems for the operation and maintenance of production and transport systems and equipment	4.1 Establish operational procedures for production and transport systems and equipment, and incorporate into site documentation 4.2 Establish maintenance procedures for production and transport systems and equipment from site and legislative requirements and, incorporate into site documentation 4.3 Establish procedures for reviewing and modifying work processes 4.4 Establish the system of recording and reporting production and transport equipment information
5. Plan and prepare for the implementation of mine transport systems and production equipment	5.1 Identify and interpret the legislative and site implementation requirements 5.2 Identify, clarify, in consultation, and communicate roles and responsibilities to all personnel 5.3 Identify, forecast, obtain and allocate/schedule resources required for the implementation 5.4 Implement production and transport systems and equipment training program

	5.5 Encourage, receive, review and, where appropriate, implement suggestions and recommendations for changes to implementation procedures
6. Establish systems for audit and review of production and transport systems and equipment	6.1 Establish procedures to audit and review equipment compliance in accordance with legislative and site requirements 6.2 Identify and assess future production and transport systems and equipment requirements and incorporate in to planning processes 6.3 Establish procedures to audit and review the currency and compliance of operation and maintenance relating to production and transport systems and equipment 6.4 Establish procedures for incorporating feedback into the audit/review system 6.5 Establish procedures to confirm the currency, relevance and compliance with the training program against identified requirements 6.6 Establish procedures for response to instances on non-compliance or other discrepancies/deficiencies revealed by audit 6.7 Establish procedures to audit emergency response and evacuation systems for compliance with site requirements

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

RIIRAI603A Establish and maintain mine transport systems and production equipment

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 RIIRAI603D Establish and maintain mine transport systems and production equipment

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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 establishing and maintenance of mine transport systems and production equipment including:
- accessing, interpreting and applying procedures for;
 - managing technical information
 - managing site/legislative requirements
 - establishing recording and reporting systems
 - conducting briefings and handover details
 - applying the principles of mine design
 - hazard identification and risk management
 - work planning and coordination
 - training needs analysis
 - using manufacturers' instructions
- works effectively with others to undertake and complete the establishing and maintenance of mine transport systems and production equipment 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 transport systems and production equipment that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identification of the relevant information and scope of the work
 - identifying the full range of specification requirements
 - identifying all aspects of the mine transport systems and production equipment
 - establishing the audit and review system
 - identifying design/selection options from an analysis of all relevant information
 - selecting the preferred plant, equipment and services options on the basis of performance against specification requirements

Knowledge Evidence

The candidate must demonstrate knowledge in establishing and maintaining mine transport systems and production equipment through:

- legislative, organisation and site requirements and procedures for;
 - transport rules
 - maintenance schemes
 - standard operating procedures
 - training
 - testing on diesel vehicles
 - battery charging,
 - underground fuel depots
 - conveyor belts
 - mine operation procedures
 - geological structures
 - mine plans
 - site environmental monitoring
 - risk management
 - production and transport systems and equipment legislative inspection requirements
 - mine reporting procedures
 - emergency response and evacuation planning processes and techniques
 - audit review processes and techniques
- production and transport systems and equipment management requirements
- mine design relating to production and transport systems and equipment
- production and transport equipment and systems; the types, uses, characteristics and limitations appropriate for safe operation at the mine site
- energy sources including electrical, hydraulic, pneumatic, diesel

- safety design features of production and transport systems
- standard operating procedures relating to production and transport equipment
- stores system
- specification design criteria, including noise, dust, lighting, ergonomics, remote control, physical clearance, confined space, visibility, seating vibration and machine equipment and personal protection
- training programs
- computer based systems relating to production and transport systems
- firefighting 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 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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