



Australian Government

RIIRAI612D Establish and maintain underground product haulage and transport systems

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIRAI612A Establish and maintain a surface mine mechanical plant management system
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 underground product haulage and transport systems in Metalliferous mining.

This unit is appropriate for those working in management roles.

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

Unit Sector

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare to develop product haulage and transport systems	1.1 Access, interpret and apply develop product haulage and transport 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 the requirements for product haulage and transport systems 1.6 Identify systems options from an analysis of technical,
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	operational and financial information 1.7 Develop a system specification from a comprehensive analysis of mine needs 1.8 Select systems options on the basis of performance against criteria
2. Select equipment for product haulage and transport systems	2.1 Identify the requirements for product haulage and transport equipment against systems requirements 2.2 Scope the work requirement and develop key selection criteria, including hazard identification and risk analysis 2.3 Develop a specification for the required product haulage and/or transport equipment 2.4 Select equipment solutions on the basis of performance against criteria
3. Establish installation and commissioning procedures	3.1 Establish hazard identification and risk analysis procedures 3.2 Develop and establish procedures for integrating new and existing mine product haulage and transport systems and processes 3.3 Develop safe operating procedures 3.4 Develop and establish installation and commissioning procedures 3.5 Establish a program, including systems and procedures, to meet identified training requirements 3.6 Establish emergency response plans and procedures
4. Establish systems for the operation and maintenance of product haulage and transport systems and equipment	4.1 Develop operational procedures and incorporate into site documentation 4.2 Develop maintenance procedures and incorporate into site documentation 4.3 Develop and establish procedures for reviewing and modifying work processes

5. Establish systems for audit and review of product haulage and transport systems and equipment	5.1 Establish procedures to evaluate and confirm system and equipment compliance 5.2 Identify and assess future systems and equipment requirements and incorporate into planning processes 5.3 Establish procedures to confirm the currency of and compliance with maintenance and safety standards 5.4 Establish the recording and reporting system for equipment information 5.5 Establish procedures for incorporating feedback into the audit/review system 5.6 Establish procedures to confirm the currency, relevance and compliance of the training program 5.7 Establish procedures for response to non-compliances or other discrepancies/deficiencies 5.8 Audit emergency response plans and procedures for compliance
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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

RIIRAI612A Establish and maintain underground product haulage and transport 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 RIIRAI612D Establish and maintain underground product haulage and transport 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 establishing and maintenance of underground product haulage and transport systems including:
 - accessing, interpreting and applying the required documentation and information
 - developing, implementing, communicating and maintaining systems, methods and procedures
 - identifying hazards and analysing and evaluating risks developing and implementing audit review processes
- works effectively with others to establish and maintain underground product haulage and transport systems that meets all the required outcomes including:
 - managing people and processes
 - coordinating human, financial and physical resources
 - developing, initiating and administering work plans, systems and procedures
 - engaging internal and external stakeholders
- demonstrates completion of the establishment and maintenance of underground product haulage and transport 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 selecting viable system options

- identifying all aspects of the operations, systems and equipment
- completing audit and review of systems and equipment
- identifying, forecasting, obtaining and allocating required resources
- completing equipment selection processes including scoping and specifications

Knowledge Evidence

The candidate must demonstrate knowledge of the following establishing and maintaining underground product haulage and transport systems through:

- applying legislative, organisation and site requirements and procedures for:
 - planning and strategic management
 - human resource management
 - business planning
 - hazard identification and risk management
 - work, health and safety
 - environment
 - managing customer/client relations
 - operations, plant and equipment requirements
 - statutory/legal controls
 - managing organisational objectives
 - work planning and coordination
 - site environmental monitoring
 - mine operation
 - mine reporting
 - maintenance surveying
 - managing technical information
 - firefighting systems
- training needs analysis techniques
- manufacturer's instructions
- computer based systems
- emergency response planning processes and techniques
- geological structure information
- principles of mine design accessing, interpreting and applying mine plans
- power sources including electrical, hydraulic, pneumatic, diesel
- product haulage and transport equipment and systems; the types, uses, characteristics and limitations
- safety design features
- specification design criteria
- stores system
- training and assessment 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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