



Australian Government

RIIMEX604D Establish and maintain surface product haulage and transport systems

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIMEX604A Establish and maintain surface product haulage and transport 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 surface product haulage and transport systems in Coal and Metalliferous mining and, Extractive.

This unit is appropriate for those working in management or technical specialist roles.

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

Unit Sector

Coal Mining

Extractive

Metalliferous Mining

Elements and Performance Criteria

1. Plan and prepare for establishing and maintaining surface product haulage and transport systems	1.1 Access, interpret and apply surface 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
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	1.5 Identify the requirements for, and purpose of, product haulage and transport systems in accordance with the system of mining or extraction 1.6 Identify systems options from an analysis of all relevant technical, operational and financial information 1.7 Identify specifications for the system from a comprehensive analysis of site needs 1.8 Select preferred systems options
2. Select equipment for surface product haulage and transport systems	2.1 Identify the requirements for, and purpose of, product haulage and transport equipment 2.2 Conduct a detailed scoping of the work requirement and develop key selection criteria 2.3 Develop specification documentation for the required product haulage and/or transport equipment 2.4 Select the preferred equipment solutions 2.5 Select and identify availability of resources, plant, tools and equipment
3. Establish installation and commissioning procedures	3.1 Establish procedures to identify hazards and analyse and evaluate risks 3.2 Develop and establish procedures for integrating new and existing site product haulage and transport systems and processes 3.3 Identify, confirm, establish and implement safe operating procedures 3.4 Develop and establish installation and commissioning procedures 3.5 Establish a program, including systems and procedures to satisfy identified training requirements 3.6 Establish emergency response and evacuation plans and procedures
4. Establish systems for the operation and maintenance of the systems and equipment	4.1 Identify, confirm, establish and implement safe operating procedures Identify, confirm, establish and implement maintenance procedures 4.2 Develop and establish procedures for reviewing and modifying work processes
5. Establish systems for audit and review of product haulage and transport	5.1 Establish procedures to evaluate and confirm system/equipment compliance 5.2 Identify and assess future requirements and incorporate into planning processes

systems and equipment	5.3 Establish procedures to confirm the currency of and compliance with product haulage and transport maintenance and safety standards 5.4 Establish systems and procedures for recording and reporting information 5.5 Establish systems and procedures for incorporating feedback into the audits and reviews 5.6 Establish procedures to confirm the currency, relevance and compliance to the training program 5.7 Establish procedures for response to non-compliance or other discrepancies/deficiencies revealed by audit 5.8 Audit emergency response and evacuation plans and procedures
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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

RIIMEX604A Establish and maintain surface 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 RIIMEX604D Establish and maintain surface 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 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 surface product haulage and transport systems including:
 - accessing, interpreting and applying technical and mine survey information
 - accessing and analysing archival and historical failure information related to the mine
 - interpreting and applying mathematical and scientific theorems/laws related to stable mining systems
 - interpreting and applying design criteria for stable mining systems
 - interpreting computer spreadsheets and stable mining systems modelling/simulations
 - accessing data from monitoring systems and equipment
 - analysing and reporting on stable mining systems training needs
 - applying risk management processes and techniques
- works effectively with others to establish and maintain surface product haulage and transport systems that meets all the required outcomes including:
 - consulting with surface mining team and provides team leadership
 - sharing information and communicating effectively in the workplace
 - establishing training, coaching and mentoring support for supervisors and managers
 - preparing written reports communicating the pit development status and outcomes

- demonstrates completion of establishing and maintaining surface product haulage and transport systems that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - providing briefings and handing over details
 - conducting maintenance surveys
 - collecting, collating and interpreting data
 - selecting equipment for surface product haulage and transport systems
 - establishing installation and commissioning procedures
 - establishing systems for the operation and maintenance of the systems and equipment
 - establishing systems for audit and review of product haulage and transport systems and equipment
 - conducting enquiries/investigations and preparing reports

Knowledge Evidence

The candidate must demonstrate knowledge in establishing and maintaining surface product haulage and transport systems through:

- computer based systems
- power sources including electrical, hydraulic, pneumatic, diesel
- the types of product haulage and transport equipment and systems and their uses, characteristics and limitations
- safety design features of product haulage and transport 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.	

*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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