



Australian Government

RIIUMM304D Construct and maintain underground roads

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIUMM304A Construct and maintain underground roads
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 construct and maintain underground roads in Metalliferous mining.

This unit is appropriate for those working in operational 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

Metalliferous mining (Underground)

Elements and Performance Criteria

1. Plan and prepare for road construction and maintenance	1.1. Access, interpret and apply road construction and maintenance documentation, and ensure the work activity is compliant 1.2. Obtain, interpret and clarify/confirm work requirements before proceeding 1.3. Select and wear personal protective equipment appropriate for work activities 1.4. Select, and check for faults, appropriate type of equipment, tools and materials for work activities 1.5. Perform equipment pre-start checks 1.6. Identify, address and report potential risks, hazards and environmental issues 1.7. Inspect and assess site conditions and determine if scaling is required and take action 1.8. Use approved dust suppression and extraction methods 1.9. Erect signs or barricades and/or safety provisions 1.10. Ensure work area is well ventilated before entry
2. Construct roads	2.1. Prepare road surface and apply road material to meet planned road characteristics and engineering specifications 2.2. Construct road to conform with road design and location as specified by work plan 2.3. Check for and remove contaminants 2.4. Construct drains and water crossing points as appropriate for the removal of run-off, and to avoid accumulation of excessive water to minimise road damage 2.5. Ensure access ways are clear whilst constructing road 2.6. Organise for excess road material to be removed
3. Maintain roads	3.1. Maintain condition of roads to meet volume of traffic 3.2. Maintain effective drainage for the removal of excess water and ensure safe hauling surface
4. Conduct post operational procedures	4.1. Check road ensuring site is serviceable 4.2. Carry out shutdown procedures 4.3. Service and make minor adjustments to equipment 4.4. Carry out housekeeping activities

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

RIIUMM304A Construct and maintain underground roads

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 RIIUMM304D Construct and maintain underground roads

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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 documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of underground road construction and maintenance including:
 - using appropriate dust suppression and extraction methods
- works effectively with others to undertake and complete the construction and maintenance of underground roads that meets all of the required outcomes including:
 - communicating clearly and concisely with others to receive and clarify work instructions, and convey work progress
 - using a range of communication technique and systems such as signage to advise others of work activity and exclusion zones
- demonstrates completion of the construction and maintenance of underground roads that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - conducting equipment pre-start checks and shutdown procedures
 - inspecting and assessing site conditions and determining if scaling is required
 - constructing and maintaining road to conform with road design and location
 - constructing and maintaining drains and water crossing points
 - removing contaminants and organizing the removal of excess road materials
 - conducting housekeeping activities

Knowledge Evidence

The candidate must demonstrate knowledge in constructing and maintaining underground roads through:

- accessing, interpreting and applying the organization and site requirements and procedures for:
 - identifying road construction sequence
 - identifying primary and secondary ventilation systems
 - handling and transport hazardous substances
 - completing drainage construction
 - addressing and reporting environmental issues
 - identifying and applying dust suppression and extraction
 - conducting operations including;
 - pushing
 - hauling
 - dumping
 - towing
 - assessing ground conditions, and identifying basic geological and technical data
- being prepared for fire/accident/emergency

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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