



Australian Government

RIIMEX202D Install open-cut mine ground support

Release: 3

RIIMEX202D Install open-cut mine ground support

Modification History

Release	Comment
1	This unit replaces RIIMEX202A Install open-cut mine ground support
2	Editorial corrections
3	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 install open-cut mine ground support in Metalliferous mining.

This unit is appropriate for those working in operational roles.

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

Unit Sector

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare for ground support installation	1.1 Access, interpret and apply ground support instillation 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 Select appropriate type of equipment and ground support materials according to job type, work plan specifications and site conditions 1.6 Carry out pre-start, start-up, park up, shutdown and secure
---	--

	equipment procedures 1.7 Communicate and coordinate activities with others prior to, during and on completion of the work activity 1.8 Obtain and interpret emergency procedures, and be prepared for an emergency
2. Set up for installation	2.1 Remove any surface soils and/or vegetation and expose bedrock 2.2 Scale down loose material 2.3 Position drill at designated angle and according to equipment limitations 2.4 Position drill holes according to ground support design and ground support plan to maximise lamination of rock layers
3. Assemble and install ground support	3.1 Assemble anchors to full depth according to ground support plan 3.2 Drill holes to specified diameter and depth in accordance with type of ground support and work plan specifications 3.3 Install and tension anchors and bolts to appropriate pattern and tensioning degree 3.4 Install water suppression devices minimising water infiltration to ground supports 3.5 Check ground support periodically, monitor creepage and adjust stressing
4. Conduct housekeeping activities	4.1 Clean, check, maintain and store plant, tools and equipment 4.2 Report issues identified with plant, tools and equipment

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

RIIMEX202A Install open-cut mine ground support

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 RIIMEX202D Install open-cut mine ground support

Modification History

Release	Comment
1	This unit replaces RIIMEX202A Install open-cut mine ground support
2	Editorial corrections
3	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.

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 requirements, procedures and techniques for the safe, effective and efficient completion of installing open-cut mine ground support including:
 - selecting and using hand and power tools
 - selecting and applying drilling techniques
 - working wearing personal protective equipment
 - using vehicle directions and signal information
 - following equipment cleaning and maintenance requirements and procedures
 - operating equipment effectively
- works effectively with others to undertake and complete the installation of open-cut mine ground support that meets all of the required outcomes including:
 - communicating clearly and concisely with others to receive and clarify work instructions
 - completing required verbal and written records and reporting
 - applying hazard identification procedures
- demonstrates completion of installing open-cut mine ground support that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:

- selecting appropriate type of equipment and ground support materials according to job type, work plan specifications and site conditions
- installing anchors and bolts to the appropriate pattern and tension degree
- minimising water infiltration to ground supports by installing water suppression devices
- monitoring creepage, and adjusting stressing to maintain ground support

Knowledge Evidence

The candidate must demonstrate knowledge of installing open-cut mine ground support through:

- equipment processes, safety requirements, technical capability and limitations
- basic geological and technical data (rock formation)
- de-watering procedures and characteristics
- ground support characteristics and applications
- consequences of spills

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

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>