



Australian Government

RIIWMG202D Conduct dewatering operations in underground mining operations

Release: 3

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Modification History

Release	Comment
1	The unit replaces RIIWMG202A Conduct dewatering operations in underground mining operations
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 develops a participant's skills and knowledge required to conduct dewatering operations in underground mining operations in Coal and Metalliferous mining.

This unit is appropriate for those working in operational roles.

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

Unit Sector

Coal mining (Underground)

Metalliferous mining (Underground)

Elements and Performance Criteria

1. Plan and prepare to conduct dewatering operations in underground mining operations	1.1 Access, interpret and apply dewatering operations documentation and ensure the work activity is compliant 1.2 Obtain read, interpret, clarify and confirm work requirements 1.3 Select, and check for faults, tools/equipment for work activities 1.4 Develop dewatering plan 1.5 Identify and obtain signage requirements
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	1.6 Prepare sumps and pads 1.7 Coordinate and transport required equipment and tools to and from the site 1.8 Identify and address potential risks, hazards and environmental issues, and implement control measures 1.9 Select and wear personal protective equipment appropriate for work activities 1.10 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Install, operate and recover dewatering equipment	2.1 Communicate and coordinate with others at the site throughout the work activity 2.2 Install and dismantle dewatering system in accordance with the plan 2.3 Carry out pre-start, start-up and shutdown procedures 2.4 Monitor and adjust dewatering system performance where required 2.5 Recognise and follow procedures in hazardous and emergency situations 2.6 Ensure discharged water is dispersed as required 2.7 Complete work activity in accordance with the work plan 2.8 Recover dewatering system 2.9 Clear work area and dispose of materials
3. Carry out operator maintenance	3.1 Carry out dewatering equipment and systems inspections and fault finding 3.2 Carry out operational maintenance, servicing, lubricating and housekeeping tasks 3.3 Process written records and reports

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

RIIWMG202A Conduct dewatering operations in underground mining operations

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 RIIWMG202D Conduct dewatering operations in underground mining operations

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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 conducting of dewatering operations in underground mining operations including:
 - selecting dewatering methods
 - interpreting ground conditions
 - pumping equipment operating requirements
 - responding to changing circumstances
 - complying with environmental requirements
 - working in confined spaces
 - applying equipment records maintenance requirements
 - interpreting and applying work instructions
 - selecting and using the required tools and equipment
 - selecting and wearing appropriate personal protective equipment
 - being prepared for emergency
- works effectively with others to undertake and complete dewatering operations in underground mining operations that meets all of the required outcomes including:
 - using a range of communication techniques to convey information to others

- maintaining written and verbal reporting requirements and procedures
- demonstrates completion of conducting dewatering operations in underground mining operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - installing and dismantling dewatering equipment
 - completing pre-start, start-up and shutdown procedures
 - starting, testing, monitoring and adjusting dewatering equipment
 - inspecting dewatering equipment and systems
 - maintaining, servicing and lubricating equipment
 - dispersing discharged water
 - clearing work area and disposing of materials
 - inspecting dewatering equipment and systems
 - completing the work plan

Knowledge Evidence

The candidate must demonstrate knowledge in conducting dewatering operations in underground mining operations through:

- identifying and complying with site requirements and constraints
- identifying site geological and survey data
- identifying and applying dewatering equipment pre-start, start-up, operating and shutdown procedures and techniques
- identifying dewatering equipment characteristics, technical capability and limitations
- identifying and applying drainage principles and processes

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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