



Australian Government

RIIWMG302D Reclaim and treat water

Release: 3

RIIWMG302D Reclaim and treat water

Modification History

Release	Comment
1	The unit replaces RIIWMG302A Reclaim and treat water
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 reclaim and treat water in 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

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare to reclaim and treat water	1.1 Access, interpret and apply water reclaiming and treating documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Use appropriate communication methods 1.4 Select and wear personal protective equipment appropriate for work activities 1.5 Select appropriate reagents 1.6 Carry out equipment pre-start checks 1.7 Identify and address potential risks, hazards and environmental issues, and implement control measures
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	1.8 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Treat water	2.1 Dose reagents at approved levels 2.2 Take sample and test 2.3 Monitor water storage levels and reject and/or permeate flows
3. Extract water	3.1 Pump water to storage
4. Operate and monitor equipment	4.1 Read and interpret data from equipment indicators and maintain flow rates 4.2 Continuously inspect plant and identify defects and potential problems 4.3 Adjust equipment to approved operating parameters and optimise performance, maintain efficient water treatment systems and meet water quality targets 4.4 Control feed to equipment
5. Clean up	5.1 Clean plant and equipment 5.2 Clean and store auxiliary equipment 5.3 Complete documentation clearly, concisely and on time 5.4 Complete end of shift reports and records

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

RIIWMG302A Reclaim and treat water

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 RIIWMG302D Reclaim and treat water

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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 the reclaiming and treating of water including:
 - selecting and using the required tools and equipment
 - treating water
 - extracting water
 - operating and monitoring equipment
- works effectively with others to undertake and complete the reclaiming and treating of water 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 reclaiming and treating water that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - completing water treatment operations
 - completing extracting operations
 - reading and interpreting data from equipment indicators
 - inspecting, identifying defects in and adjusting equipment

Knowledge Evidence

The candidate must demonstrate knowledge in reclaiming and treating water through:

- identifying, assessing, addressing and reporting hazards
- interpreting reports and data
- identifying and addressing contaminants
- identifying equipment processes, technical capability and limitations
- identifying and using reagents

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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