



Australian Government

RIIWMG402D Monitor and coordinate waste and process water treatment

Release: 3

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Modification History

Release	Comment
1	The unit replaces RIIWMG402A Monitor and coordinate waste and process water treatment
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 monitor and coordinate waste and process water treatment in Metalliferous mining.

This unit is appropriate for those working in supervisory or technical specialist 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 for waste and process water treatment	1.1 Access, read, interpret and apply waste and process water treatment documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Select and wear personal protective equipment appropriate for work activities 1.4 Identify and address potential risks, hazards and environmental issues, and implement control measures 1.5 Carry out routine plant inspections 1.6 Collect samples and conduct and analyse process tests to
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	determine performance against plant operational requirements 1.7 Collect, interpret, record and report process data 1.8 Conduct calculations to determine process performance
2. Control chemical use	2.1 Use, handle and store chemicals 2.2 Determine, prepare and conduct chemical dosing 2.3 Maintain information and records for chemical supply and usage
3. Monitor and control processes	3.1 Monitor processes to maintain parameters of operation 3.2 Identify, assess and report process faults and operational condition of plant 3.3 Adjust integrated processes and optimise system performance
4. Compile process records	4.1 Compile records and reports from plant and system data 4.2 Ensure records are processed

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

RIIWMG402A Monitor and coordinate waste and process water treatment

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 RIIWMG402D Monitor and coordinate waste and process water treatment

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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 legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient monitoring and coordinating of waste and process water treatment including:
 - identifying and managing hazards
 - handling and managing hazardous goods
 - selecting and using the required tools and equipment
 - using electronic monitoring and metering systems
 - using manual chart recording systems
 - using laboratory testing and sampling equipment
 - using computerised equipment
 - interpreting reports
 - identifying and using pipes and fittings/pumping and valve systems
 - identifying and using mechanical and electrical control systems
 - identifying and complying with shutdown and recharging requirements
- works effectively with others to undertake and complete the monitoring and coordination of waste and process water treatment tasks that meet all the required outcomes including:

- providing clear and timely instruction and supervision
- maintaining written information and records for chemical supply and usage
- operating communication equipment
- organising work activities to meet all task requirements
- demonstrates completion of the monitoring and coordination of waste and process water treatment that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - collecting samples and conducting and analysing process tests
 - conducting routine plant inspections on schedule
 - conducting calculations to determine process performance
 - using, handling and storing chemicals
 - assessing requirements for and conducting chemical dosing

Knowledge Evidence

The candidate must demonstrate knowledge in monitoring and coordinating waste and process water treatment through:

- applying water system hydraulics
- identifying and complying with requirements of relevant utilities and service bodies
- identifying environmental, landscape and ground structure of work area
- identifying equipment characteristics, capacity and limitations
- identifying and addressing effect of weather and conditions on plant or site operation

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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