



Australian Government

RIIWMG601D Establish and maintain water management system

Release: 3

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Modification History

Release	Comment
1	The unit replaces RIIWMG601A Establish and maintain water management system
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 establish and maintain a water management system in Coal and Metalliferous mining and Extractive.

This unit is appropriate for those working in management or technical specialist roles.

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

Unit Sector

Coal mining

Extractive

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare to establish and maintain water management system	1.1 Access, interpret and apply water management system documentation and ensure the work activity is compliant 1.2 Access, interpret and analyse organisational goals, objectives and strategies to determine required research 1.3 Investigate and analyse license, worksite environmental conditions and legislation to develop options, strategies and anticipated outcomes 1.4 Evaluate existing system and equipment suitability, taking into account operational requirements, safety and health issues and
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	environmental legislation/regulations 1.5 Research, evaluate, select and purchase new systems 1.6 Access, interpret and analyse research information to establish options and opportunities
2. Facilitate site environmental investigation	2.1 Consult with internal and external stakeholders in the planning process and gain their support for the outcomes 2.2 Establish strategies and systems to support analysis of the worksite environments 2.3 Ensure worksite environments are investigated to identify and assess the factors which impact on water management system 2.4 Ensure market opportunities are identified and explored to assist the organisation to forecast trends and options 2.5 Ensure water quantity and quality requirements and excesses are determined 2.6 Ensure threats and opportunities are identified, analysed and used to optimise project outcomes 2.7 Ensure titles searches are undertaken 2.8 Ensure legal obligations are identified and documented
3. Develop, implement and maintain procedures for the system	3.1 Ensure contingency plans for flood routing of water in operational area to cover peak flows are developed and implemented 3.2 Ensure site plans for surface drainage and total reticulation network are developed and implemented to service the life of the mine 3.3 Ensure procedures for pumping waters from the mine are developed and meet licence conditions 3.4 Ensure work procedures are developed for drainage and road geometry 3.5 Ensure staged development of civil aspects are planned and interpret 3.6 Ensure water treatment systems are designed to specification 3.7 Ensure maintenance work procedures for the drainage scheme of the worksites are developed and implemented 3.8 Identify, clarify and communicate roles and responsibilities 3.9 Develop and implement information and training systems to support water management 3.10 Prepare an emergency response plan for failure or critical aspects the system
4. Evaluate the	4.1 Identify and agree on performance indicators and criteria for

system	the evaluation of statutory compliance and system effectiveness 4.2 Ensure site drainage, reticulation and wastewater treatment is monitored against agreed indicators 4.3 Ensure quality of site drainage effluent is monitored, recorded and reported 4.4 Ensure hydrological effects and sensitive ecological/conservation sites are monitored 4.5 Ensure instances of non-compliance with regulatory requirements are identified, assessed and addressed
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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

RIIWMG601A Establish and maintain water management system

Links

Companion Volume implementation guides are found in VETNet -

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