



Australian Government

Department of Education, Employment and Workplace Relations

RIIWMG401A Apply and monitor the site water management plan

Release: 1

RIIWMG401A Apply and monitor the site water management plan

Modification History

Not applicable.

Unit Descriptor

This unit covers the application and monitoring of the site water management plan in the coal mining and extractive industries. It includes: planning, preparing for and initiating tasks; and monitoring, adjusting and reporting on the execution of the plan.

Application of the Unit

This unit is appropriate for those working in supervisory or technical specialist roles, within:

- Coal mining
- Extractive industries

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan, prepare for and initiate tasks	1.1. Access, interpret and apply compliance documentation relevant to the application and monitoring of the site water management plan 1.2. Access and share with team members the geological, hydrological and survey data required to complete the site water management tasks 1.3. Prepare an action plan, in consultation with team members, which makes best use of the available resource and takes into account the requirements of the site water management plan 1.4. Acquire and make available the necessary resources for the safe, effective and efficient conduct of the tasks 1.5. Issue clear and timely instructions to team members and others involved for the safe, effective and efficient conduct in the tasks
2. Monitor, adjust and report on execution of the plan	2.1. Ensure safe, effective and efficient execution of tasks in accordance with the management plan and other relevant requirements and procedure 2.2. Monitor management plan performance to ensure achievement of planned outcomes 2.3. Initiate adjustments to work programs to take into account non achievement of planned outcomes 2.4. Complete and submit reports as required 2.5. Recommend changes to improve the safety, efficiency and effectiveness of the management plan

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the performance criteria in this unit, particularly for the application in the various circumstances in which this unit may be applied. This includes the ability to carry out the following as required to apply and monitor the site water management plan:

- apply legislative, organisation and site requirements and procedures
- interpret legislative requirements and procedures
- interpret site requirements and procedures
- provide team leadership
- apply procedures for selecting construction and operational techniques
- apply procedures for selecting and assigning plant and equipment
- apply procedures for developing and administering work plans

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly its application in a variety of circumstances in which the unit may be used. This includes knowledge of the following, as required to apply and monitor the site water management plan:

- legislative, manufacturer's and site requirements and procedures
- site risk, legislative compliance, health, safety, environmental, quality and communication requirements and procedures
- site water management plan
- team leadership techniques
- operational techniques required for execution of the plan
- plant and equipment capabilities
- work planning techniques
- work monitoring methods
- training systems
- emergency response and evacuation planning processes and techniques

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following: • knowledge of the requirements, procedures and instructions for applying and monitoring site water management plans • implementation of appropriate procedures and techniques for the safe, effective and efficient application and monitoring of site water management plans • working with others to plan, prepare and conduct the site water management plans • provision of clear and timely instruction and supervision by the individual of those involved in the application of site water management plans • evidence of the consistent successful application and monitoring of the site water management plan
Context of and specific resources for assessment	• This unit must be assessed in the context of the work environment. Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. • The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those required on the job. • Customisation of assessment and delivery environment to sensitively accommodate

	cultural diversity. • Aboriginal people and other people from a non English speaking background may have second language issues. • Assessment of this competency requires typical resources normally used in a resources and infrastructure sector environment. Selection and use of resources for particular worksites may differ due to the site circumstances. • Where applicable, physical resources should include equipment modified for people with disabilities. • Access must be provided to appropriate learning and/or assessment support when required.
Method of assessment	This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods: • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: • implementation of appropriate procedures and techniques for the safe, effective and efficient achievement of the required outcomes • consistently achieving the required outcomes • first hand testimonial evidence of the candidate's: • working with others to plan, prepare and conduct site water management plans • provision of clear and timely instruction and supervision by the individual of those involved in the application of site water management plans
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Relevant compliance documentation may include:	• legislative, organisation and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • code of practice • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Geological data may include relevant site specific information in relation to:	• rock type and characteristics • faults and joints • water tables or other water sources
Hydrological data may include:	• rainfall • surface water, existing streams and dams • catchment areas and runoff characteristics • groundwater and bores
Survey data may include relevant site specific information in relation to:	• floor heights • bench widths • grades
Site water management plan may include:	• site water balances for peak and low requirements • water re-use and recycle requirements • water withdrawals constraints, including volume and source use in normal and dry weather • pumping capacities requirements to meet current and future production needs • planned volume and quality of discharge • segregation requirements for clean and contaminated flows • contaminated flows treatment program • waste water volume usage and quality and how and where to store for treatment then discharge

	• groundwater sources protection requirements • existing neighbour water usage and discharge considerations • surface water resources control requirements • quality and potential of ground water regime protection measures, including local wells and surface water sources) • testing management system for discharge waters, in accordance with legislative, organisation and site requirements and procedures • contingency plans for flood routing of waters in pit's operational area covering peak flows • pumping of waters from flooded pit, settlement ponds, holding dams or sump pits • engineering detail for construction of table drains, culverts, channels, pipe works, trenches, manhole, gully pits as part of surface drainage and total reticulation network • water flow, pipe laying techniques and earthwork activities associated with drainage and rural road geometry • work pits development • ongoing maintenance work for the drainage scheme of the quarry site, including pit works, roadways, administration areas and boundary conditions • site drainage and waste water treatment processes monitoring requirements • recording of the quality of site drainage effluent to meet environmental and company requirements • water treatment systems design
Resources may include:	• labour • materials • services • equipment
Instructions may be issued in briefings, handovers, and work orders and may include:	• nature and scope of tasks • achievement targets • operational conditions • obtaining permits required • site layout • out-of-bounds areas • worksite inspection requirements

	• lighting conditions • plant or equipment defects • hazards and potential hazards • coordination requirements or issues
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Unit Sector(s)

Water Management

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.