



Australian Government

NWPCAD022 Coordinate and monitor groundwater system usage

Release: 1

NWPCAD022 Coordinate and monitor groundwater system usage

Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

Application

This unit involves the skills and knowledge required to coordinate and monitor groundwater system usage.

It includes coordinating and monitoring the use of groundwater as a source of water supply, ensuring Ground Water Management Plan (GWMP) performance measures are met, environmental issues are addressed and a source of supply is maintained.

This unit applies to workers with a specific responsibility for ensuring groundwater systems usage complies with the GWMP and assets and processes comply with organisational and statutory requirements. Those undertaking this unit would work autonomously, usually with supervisory responsibilities, while performing complex tasks in a range of contexts.

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

Pre-requisite Unit

Not applicable.

Competency Field

Catchment and Dams

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Confirm GWMP performance measures

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Identify groundwater management, stakeholder and water quality and quantity requirements

	1.2	Gather and apply historical groundwater information
	1.3	Identify environmental factors and issues impacting on groundwater
2 Monitor and coordinate processes	2.1	Conduct monitoring and testing programs according to workplace procedures
	2.2	Monitor groundwater usage and quality
	2.3	Identify, investigate and report breaches of usage provisions and changes to quality parameters
3 Monitor performance of assets	3.1	Identify hazards, assess risks and implement control measures according to workplace procedures
	3.2	Inspect and monitor assets to ensure performance meets specifications in plan
	3.3	Select, fit and use personal protective equipment
	3.4	Develop and schedule maintenance programs to meet current and potential problems
4 Report on groundwater system usage	4.1	Analyse, record and report coordination and monitoring data
	4.2	Identify and investigate current and potential problems
	4.3	Report investigation results and recommendations to relevant personnel

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to NWPSOU053 Coordinate and monitor groundwater

system usage.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Assessment Requirements for NWPCAD022 Coordinate and monitor groundwater system usage

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and includes:

- analysing and reporting asset performance data
- coordinating and monitoring groundwater system usage
- identifying groundwater management requirements, including water quality and quantity requirements
- identifying hazards, assessing risks and implementing control measures
- identifying, investigating and reporting current and potential asset problems including recommendations for action
- identifying stakeholder requirements and environmental and developmental factors impacting on groundwater
- implementing monitoring and testing programs
- investigating and reporting on breaches
- monitoring assets performance
- monitoring groundwater usage and quality
- scheduling asset maintenance programs
- undertaking inspections
- using safety equipment and personal protective equipment

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and include knowledge of:

- concrete structure, strengths and deterioration principles
- control systems
- effects of weather and conditions on bulkwater assets
- environmental factors including effects of weather and conditions on bulkwater assets
- equipment operation
- groundwater hydraulics
- hazardous materials handling
- relevant legislation, policies and procedures, organisational and statutory requirements

- risk management techniques
- stakeholder expectations and requirements
- system layout

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including legislation, regulations, codes of practice, workplace procedures and operation manuals.

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