



Australian Government

NWPSOU053 Coordinate and monitor groundwater system usage

Release: 1

NWPSOU053 Coordinate and monitor groundwater system usage

Modification History

Release	Comments
1	This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages. This unit supersedes and is equivalent to NWP417B Coordinate and monitor groundwater system usage. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • PC 1.1, 1.2 and 1.4 merged

Application

This unit describes the skills required to coordinate and monitor the use of groundwater as a source of water supply ensuring that Ground Water Management Plan (GWMP) performance measures are met, environmental issues are addressed and a source of supply is maintained.

This unit applies to those workers with a specific responsibility for ensuring that groundwater system usage complies with the GWMP and that assets and processes comply with organisational and statutory requirements.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to, particularly those related to WHS.

Those undertaking this unit would work independently or in a team, and may be required to coordinate an operational team. They will perform complex tasks while operating in a familiar context, ensuring minimum damage to the environment. However, the level of responsibility may vary according to the size, scope, location, and technical complexity of individual projects and groundwater system.

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

Competency Field

Source

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
1. Confirm GWMP performance measures	1.1 Identify groundwater management, stakeholder and water quality and quantity requirements. 1.2 Gather historical groundwater information and apply as required. 1.3 Identify environmental factors and issues that impact on groundwater.
2. Monitor and coordinate processes	2.1 Conduct monitoring and testing programs. 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 Monitor assets to ensure performance meets specifications in plan. 3.2 Select, fit and use personal protective equipment. 3.3 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.

Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Learning NA					Reading					Writing					Oral communication					Numeracy				

Performance variables:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Support					Context					Text complexity					Task complexity				

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

Unit Mapping Information

This unit supersedes and is equivalent to NWP417B 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>

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Assessment Requirements for NWPSOU053 Coordinate and monitor groundwater system usage

Modification History

Release	Comments
1	These Assessment Requirements were released in NWP Water Training Package release 1.0 and meet the Standards for Training Packages. Assessment Requirements created drawing upon specified assessment information from superseded unit

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- undertaking source inspections
- using safety equipment and personal protective equipment
- identifying potential sources of contamination
- coordinating and monitoring groundwater system usage
- identifying groundwater management requirements, including water quality and quantity requirements
- identifying stakeholder requirements and environmental and development factors that impact on groundwater
- implementing monitoring and testing programs
- monitoring groundwater usage and quality
- investigating and reporting on breaches
- monitoring assets performance
- scheduling asset maintenance programs
- analysing and reporting asset performance data
- identifying, investigating and reporting current and potential asset problems, including recommendations for action

Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- relevant legislation, policies and procedures, organisational and statutory requirements

- customer expectations and requirements
- groundwater hydraulics
- properties of stored water
- system layout
- control systems
- equipment operation
- relevant utilities and service bodies
- hazardous materials handling
- effects of weather and conditions on bulkwater assets
- principles of soil mechanics
- concrete structure, strengths and deterioration
- risk management techniques
- WHS

Assessment Conditions

Competency should be assessed in an actual workplace or in a simulated environment, with access to equipment and infrastructure appropriate to the outcome. Competency should be demonstrated over time to ensure the candidate is assessed across a variety of situations.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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