



Australian Government

NWPSOU052 Inspect and operate groundwater regulation

Release: 1

NWPSOU052 Inspect and operate groundwater regulation

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 NWP321B Inspect and operate groundwater regulation. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice

Application

This unit describes the skills required to inspect, operate, measure and report on groundwater usage and system performance.

This unit applies to those working as field and operational staff with a specific responsibility for inspecting and checking groundwater sources.

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 under indirect supervision while performing routine tasks in a familiar context, ensuring minimum damage to the environment.

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. Inspect and report on source performance and usage	1.1 Carry out routine inspections of groundwater bores. 1.2 Collect and record data on groundwater usage and/or bore levels. 1.3 Collect and record water samples. 1.4 Select, fit and use required safety equipment, including personal protective equipment.
2. Check pumps and meters	2.1 Test bore pumps and check flow meters to determine accuracy. 2.2 Adjust pumps and flow meters to conform to the allocation permit.
3. Operate and coordinate processes	3.1 Measure and record extraction volumes. 3.2 Check extraction volumes for compliance with entitlement.
4. Complete documentation	4.1 Record inspection results. 4.2 Report source data.

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					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 NWP321B Inspect and operate groundwater regulation.

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 NWPSOU052 Inspect and operate groundwater regulation

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.

- solving operational problems
- calculating flows
- following standard operating procedures
- identifying control system faults
- using safety equipment and personal protective equipment
- identifying potential sources of contamination
- performing inspection, regulation, operation, measurement and reporting of groundwater systems
- inspecting groundwater bores
- collecting and recording data
- collecting samples
- testing and adjusting pumps and flow meters to produce required flows
- recording extraction volumes and checking for compliance
- completing relevant documentation

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.

- properties of stored water
- communication systems

- principles of hydraulics
- 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
- construction procedures
- risk management techniques
- WHS
- organisational and statutory requirements

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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