



Australian Government

NWPSOU008 Implement and coordinate a groundwater plan

Release: 1

NWPSOU008 Implement and coordinate a groundwater plan

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 implement and coordinate a groundwater plan.

It includes coordinating and monitoring the management plan to use groundwater as a resource for water supply. It also includes applying, consulting and adhering to legislation, regulations and organisational policies

This unit applies to leaders with responsibility for the management of groundwater resources. Those undertaking this unit would work autonomously and lead staff, while performing sophisticated tasks in a range of familiar contexts.

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

Pre-requisite Unit

Not applicable.

Competency Field

Source

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan for groundwater management

PERFORMANCE CRITERIA

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

1.1 Confirm performance measures for the groundwater management plan

- 1.2 Identify and interpret legislative requirements and organisational policies for the management of groundwater
 - 1.3 Identify stakeholder requirements impacting on the groundwater quality, quantity and conservation
 - 1.4 Gather historical groundwater information and evaluate as input to the planning process
 - 1.5 Identify, interpret and assess water quality and quantity requirements
 - 1.6 Identify and interpret environmental and developmental factors impacting groundwater
- 2 **Implement the groundwater management plan**
 - 2.1 Communicate the groundwater management plan to relevant personnel and stakeholders according to regulations and workplace procedures
 - 2.2 Develop management plan components and activities for implementation
 - 2.3 Coordinate groundwater plan activities and determine responsibilities and timelines for implementation activities
- 3 **Monitor and review the groundwater management plan**
 - 3.1 Design and implement monitoring and testing programs for groundwater usage and quality according to the groundwater plan
 - 3.2 Analyse, interpret and record test results according to workplace procedures
 - 3.3 Identify and investigate current and potential problems and report results and recommendations
 - 3.4 Evaluate objectives and performance of the groundwater plan and report deviations from target values
 - 3.5 Report investigation results and make recommendations according to workplace procedures
 - 3.6 Identify, investigate and report deviations of planned groundwater usage quality from plan objectives
 - 3.7 Review objectives of the groundwater management and implementation plans

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.

Unit Mapping Information

This unit replaces and is equivalent to NWPIRR074 Implement and coordinate groundwater management plan.

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 NWPSOU008 Implement and coordinate a groundwater plan

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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:

- communicating with stakeholders and determining requirements
- developing implementation plans addressing the objectives and requirements specified in the groundwater plan
- developing, implementing and overseeing testing and other monitoring arrangements to track the performance of the groundwater plan
- evaluating extraction of water including:
 - flow rates
 - timelines
 - volume
- evaluating plans and implementation activities and procedures
- gathering, interpreting and synthesising information to underpin the implementation of the groundwater plan including:
 - historical data
 - quality test results
 - stakeholder views
 - relevant legislation and industry standards
 - water quantity
- investigating and reporting breaches of groundwater usage
- linking implementation plans to the groundwater plan objectives and organisational requirements
- performing activities associated with implementing and managing the operation of groundwater as a supply system
- performing calculations to evaluate performance of groundwater plan

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 includes knowledge of:

- environmental impacts of groundwater collection

- groundwater hydraulics
- plan development and components
- problem identification and investigation
- relevant information associated with implementing and coordinating a groundwater collection plan including:
 - historical records and data
 - relevant legislation and industry standards
 - water industry legislation and regulations
 - workplace policies and procedures
- risk management principles

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 suitable workplace operational situations. Where this is not appropriate, assessment must occur in suitable simulated workplace operational situations reflecting actual 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, facilities, equipment and personal protective equipment currently used in industry
- applicable relevant documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

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