



**Australian Government**

# **NWPSOU041 Coordinate and monitor bulkwater system operations**

**Release: 1**

# NWPSOU041 Coordinate and monitor bulkwater system operations

## Modification History

| Release | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | <p>This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages.</p> <p>This unit supersedes and is equivalent to NWP418B Coordinate and monitor bulkwater system operations.</p> <ul style="list-style-type: none"><li>• Unit code updated</li><li>• Content and formatting updated to comply with the new standards</li><li>• All PC transitioned from passive to active voice</li><li>• Element 4 reworded</li><li>• Elements 2 and 3 merged</li><li>• PC 1.2 and 1.3 merged</li></ul> |

## Application

This unit describes the skills required to monitor and coordinate the operation of bulkwater systems, to measure and report on system performance and process quality control.

This unit applies to workers responsible for ensuring that bulkwater system operations are coordinated and monitored to ensure compliance 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.

Those undertaking this unit would work independently or in a team, and may coordinate an operational team. They would perform complex tasks in mostly familiar contexts while 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.                                                                                                                                                                                                            |
| <b>1. Confirm performance measures</b>             | 1.1 Identify water flow, quality and quantity requirements.<br>1.2 Identify surveillance and stakeholder requirements.<br>1.3 Identify performance measures for the resource and operation.<br>1.4 Identify environmental flows that impact on water flows and quality.                                                                                                                                            |
| <b>2. Monitor and coordinate asset performance</b> | 2.1 Select, fit and use equipment, including personal protective equipment.<br>2.2 Apply monitoring and testing programs.<br>2.3 Monitor assets to ensure performance meets specifications in management plan.<br>2.4 Schedule maintenance programs.<br>2.5 Monitor water flows and quality.<br>2.6 Coordinate processes to meet plan requirements and targets.<br>2.7 Take action to optimise system performance. |
| <b>3. Finalise work</b>                            | 3.1 Analyse, record and report coordination and monitoring data.<br>3.2 Identify and report current and potential problems.                                                                                                                                                                                                                                                                                        |

## 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 NWP418B Coordinate and monitor bulkwater system operations.

## 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 NWPSOU041 Coordinate and monitor bulkwater system operations

## Modification History

| Release | Comments                                                                                                                                                                                                                                                                                        |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | <p>These Assessment Requirements were released in NWP Water Training Package release 1.0 and meet the Standards for Training Packages.</p> <ul style="list-style-type: none"><li>• Assessment Requirements created drawing upon specified assessment information from superseded unit</li></ul> |

## 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.

- interpreting plans, charts and instructions, policies, procedures and standards
- using safety equipment and personal protective equipment
- identifying and investigating operational problems
- monitoring and coordinating the operation of bulkwater systems
- identifying system performance measures, stakeholder requirements and environmental factors that may influence performance
- implementing monitoring and testing programs
- scheduling maintenance
- coordinating and optimising system performance
- collecting and recording data
- producing required reports

## 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.

- system hydraulics
- coordination processes
- system layout, processes
- environmental aspects of bulkwater systems
- chemical use

- policies, procedures and legislation
- risk factors and potential hazards involved with water pressures and flows
- equipment operation, capacity and limitations
- effects of weather and conditions on operation of supply networks
- pipes and fittings
- pumping and valving systems
- control systems

## 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.

## Links

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