



Australian Government

NWPCAD021 Coordinate and monitor bulkwater system operations

Release: 1

NWPCAD021 Coordinate and monitor bulkwater system operations

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 bulkwater system operations.

It includes monitoring and coordinating the operation of bulkwater systems, measuring and reporting 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. 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 performance

PERFORMANCE CRITERIA

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

1.1 Identify water flow, quality and quantity requirements

measures

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| | 1.2 | Identify surveillance and stakeholder requirements |
| | 1.3 | Identify operational performance measures |
| | 1.4 | Identify environmental factors impacting on water flows and quality |
| 2 | Monitor and coordinate asset performance | |
| | 2.1 | Identify hazards, assess risks and implement control measures according to workplace procedures |
| | 2.2 | Select, fit and use equipment, including personal protective equipment |
| | 2.3 | Apply monitoring and testing programs according to workplace procedures |
| | 2.4 | Monitor assets to ensure performance meets specifications in management plan |
| | 2.5 | Develop and schedule maintenance programs |
| | 2.6 | Monitor water flows and quality according to stakeholder needs |
| | 2.7 | Coordinate processes to meet plan requirements and targets |
| | 2.8 | Optimise system performance according to workplace procedures |
| 3 | Finalise work | |
| | 3.1 | Analyse, record and report coordination and monitoring data to relevant stakeholders |
| | 3.2 | Identify and report current and potential problems |

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 NWPSOU041 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>

Assessment Requirements for NWPCAD021 Coordinate and monitor bulkwater system operations

Modification History

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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:

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

- chemical use
- control systems
- coordination processes
- effects of weather and conditions on operation of supply networks
- environmental aspects of bulkwater systems
- equipment operation, capacity and limitations
- monitoring and testing requirements
- pumping and valving systems
- relevant legislation, policies and procedures
- risk factors and potential hazards involved with water pressures and flows
- system hydraulics
- system layout processes
- workplace reporting requirements

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.

Links

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