



Australian Government

NWPNET043 Monitor and operate bulkwater transfer systems

Release: 1

NWPNET043 Monitor and operate bulkwater transfer systems

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 NWP258B Monitor and operate bulkwater transfer systems. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • Element 4 removed • PC 1.4 and 3.3 removed • PC 1.3 revised

Application

This unit describes the skills required to monitor and operate bulkwater transfer systems.

This unit applies to those working as staff with specific responsibility for ensuring that the operation of bulk water transfer systems complies with legislative and organisational 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 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

Networks

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. Plan and prepare work	1.1 Determine work requirements for operation and monitoring of bulkwater transfer systems are in line with specifications and instructions. 1.2 Perform site check to prevent damage to other utilities and the environment. 1.3 Select and check equipment to meet safety requirements of task and site. 1.4 Select, fit and use personal protective equipment.
2. Monitor system performance and usage	2.1 Conduct routine monitoring programs according to organisational maintenance schedules. 2.2 Identify fluctuations in demand and system changes causing dirty water. 2.3 Collect, analyse and record data on system performance and usage. 2.4 Collect and record water samples.
3. Regulate flow	3.1 Monitor and adjust flow regulating systems to meet demand requirements. 3.2 Regulate and divert flows to facilitate repair or emergency activities.

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 NWP258B Monitor and operate bulkwater transfer systems.

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 NWPNET043 Monitor and operate bulkwater transfer systems

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.

- operating bulkwater systems
- identifying and responding to operational problems
- collecting data
- producing reports and logs
- using safety and personal protective equipment
- using tools and machinery
- following plans, charts, specifications and instructions
- performing work-related calculations
- applying procedures and standards
- using communication equipment
- identifying system faults
- identifying hazards
- monitoring and operating bulkwater transfer systems
- planning and preparing for work
- monitoring transfer system performance
- collecting and recording data
- regulating water flow
- regulating water pressure

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 basics
- system layout
- environmental aspects of operation
- lock-out procedures for mechanical and electrical installations
- relevant utilities and service bodies
- communication systems
- hazardous materials handling
- landscape and ground structure of work area
- risk factors and potential hazards of operating water transfer systems
- equipment operation, capacity and limitations
- effects of weather and conditions on systems, site or plant
- use and characteristics of:
 - pumps
 - weirs
 - valves
 - flow meters
 - run time meters
- diurnal variations
- wet and dry pump wells
- illegal connections
- control systems
- disinfection of systems and chemical usage
- forces including gravitational, valve operation, hydraulic and pumps

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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