



Australian Government

NWPIRR024 Monitor and conduct maintenance on flow control and metering devices

Release: 1

NWPIRR024 Monitor and conduct maintenance on flow control and metering devices

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 NWP305B Monitor and conduct maintenance of complex flow-control and metering devices. • Unit code updated • Content and formatting updated to comply with the new standards • Unit title changed to better reflect unit outcomes • All PC transitioned from passive to active voice • One new PC added to Element 2 • All PC in Element reordered • PC 4.3 removed

Application

This unit describes the skills required to monitor the operation of flow control. This includes measuring and regulating devices, controlling water supply source systems and/or distribution systems.

This unit applies to those working as field staff with a responsibility for monitoring the operation of flow control, measuring and regulating devices, conducting maintenance and ensuring that problems and anomalies are rectified by specialist technicians.

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 and manufacturer specifications.

Those undertaking this unit would work under indirect supervision, performing routine tasks ensuring minimum damage to the environment, in a familiar context.

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

Competency Field

Irrigation

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 for work	1.1 Interpret work requirements for monitoring flow control and metering devices from plans, drawing specifications and instructions. 1.2 Select and check equipment and tools to meet the safety requirements of the task and site. 1.3 Select, fit and use required safety equipment, including personal protective equipment.
2. Monitor device and equipment performance	2.1 Identify devices and equipment. 2.2 Check and interpret information and specifications on devices and equipment performance. 2.3 Report on devices and equipment performance.
3. Conduct minor maintenance on devices and equipment	3.1 Undertake routine maintenance tasks for complex devices. 3.2 Secure devices and equipment. 3.3 Identify and report problems and anomalies for correction.
4. Monitor system performance	4.1 Schedule and monitor routine inspections of system and networks. 4.2 Collect, analyse and report data on system performance and usage.
5. Compile process records and reports	5.1 Identify process faults and monitor the operational condition of the system and network. 5.2 Report on adjustment requirements and condition of the system.

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 NA				

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 NWP305B Monitor and conduct maintenance of complex flow-control and metering devices.

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 NWPIRR024 Monitor and conduct maintenance on flow control and metering devices

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.

- identifying and reporting operational problems
- collecting and reporting system performance information
- inspecting flow regulation, measuring and regulating devices
- producing reports and logs
- using communication systems
- giving and receiving instructions
- interpreting plans, charts and instructions
- interpreting policies, procedures and standards
- monitoring the operation of flow control, measuring and regulating devices
- selecting appropriate equipment and tools, including personal protective equipment
- identifying devices and equipment to be monitored and relevant operational specifications
- collecting and recording information on device performance
- conducting routine maintenance tasks and securing devices
- identifying and reporting problems and anomalies
- inspecting system and networks
- collecting and recording data on system performance
- reporting monitoring and inspecting findings
- identifying and reporting on system performance

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.

- monitoring flow control, measuring and regulating devices' performance
- system hydraulics
- system layout
- relevant utilities and service bodies
- communication systems
- materials handling
- environmental, landscape and ground structure of water distribution system and network risk factors and potential hazards
- equipment operation, capacity and limitations
- effects of weather and conditions on operation of system and site
- flow measurement procedures
- data collection and recording
- system flow control mechanisms and control systems
- lock out procedures for mechanical and electrical installations

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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