



Australian Government

NWPIRR002 Operate basic flow control and regulating devices in irrigation systems

Release: 1

NWPIRR002 Operate basic flow control and regulating devices in irrigation 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 NWP222A Operate basic flow control and regulating devices in irrigation systems. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • Elements 1 and 2 merged • PC 2.2 removed • PC 4.2 and 4.3 reworded

Application

This unit describes the skills required to operate basic flow control and regulating devices in irrigation systems.

This unit applies to those working as field and operational staff with responsibility for using flow control and metering devices according to organisational procedures.

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, under direct supervision using own familiar resources as required, while performing routine tasks in range of familiar contexts.

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. Monitor and regulate required flows in irrigation systems	1.1 Access and apply operating requirements for flows in irrigation systems. 1.2 Use equipment to assist operational activities. 1.3 Monitor, measure and record flows at designated locations and systems according to schedule. 1.4 Identify potential operational problems and provide proactive advice. 1.5 Adjust flow regulation and control mechanisms to increase and decrease flow.
2. Record and report system adjustments	2.1 Produce information relating to flow adjustments. 2.2 Collect, record and report information on flows and abnormalities.
3. Respond to contingencies	3.1 Identify and assess potential risks and contingencies in the operation of flow control and regulating devices. 3.2 Respond to potential and actual risks and contingencies. 3.3 Inform relevant personnel within organisation of potential risks.

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					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 NWP222A Operate basic flow control and regulating devices in irrigation 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 NWPIRR002 Operate basic flow control and regulating devices in irrigation 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.

- collecting and reporting system performance information
- interpreting data
- producing information, including at least one of:
 - meter reading reports
 - daily running sheets
- adjusting and maintaining flow system control mechanisms
- securing flow regulation devices
- identifying flow requirements
- preparing for and conducting flow monitoring
- identifying and reporting operational problems
- completing records and 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.

- impact of the principles of hydraulics on the operation of flows
- system layout
- risk factors and potential hazards
- equipment operation, capacity and limitations
- effects of weather and conditions on operation of system and site

- system flow control mechanisms
- relevant 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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