



Australian Government

NWPSOU032 Operate and maintain fishways

Release: 1

NWPSOU032 Operate and maintain fishways

Modification History

Release	Comments
1	This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages.

Application

This unit describes the skills required to operate and maintain automated and manual fishways by regulating flows into fishway channels, including handling and disposing of fish.

This unit applies to field staff with the responsibility for operating fishways in remote locations.

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 will work independently under indirect supervision while performing routine tasks in a range of familiar contexts.

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.
1. Plan and prepare work	1.1 Determine and apply the operational rules for the fishways from design reports. 1.2 Perform site check to establish upstream flows coming into the weir. 1.3 Plan gate opening and gate operations. 1.4 Develop plans for the maintenance of the fishways.
2. Operate the	2.1 Regulate weir and fishway gates to maintain fish attraction flows.

fishways	2.2 Identify, sort and record fish species and numbers. 2.3 Collect samples and test for temperature, DO, pH and conductivity. 2.4 Release native fish into weir pool and dispose of noxious fish.
3. Maintain the fishways	3.1 Inspect the fishway channel, gates, baffles and cage to identify maintenance needs. 3.2 Test equipment and schedule maintenance tasks.
4. Finalise work	4.1 Monitor and record water flow. 4.2 Collect fishway data from inspections and monitoring points. 4.3 Compile reports from the fishway data.

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 NA					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

No equivalent unit.

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 NWPSOU032 Operate and maintain fishways

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.

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 policies, procedures and standards
- identifying and investigating operational problems coordinating the operation of the fishway gates
- handling and disposing of fish
- identifying fish species and their behaviour
- collecting samples
- collecting data
- producing plans
- operating fishing handling equipment
- maintaining the fishway channel including relevant:
 - removing debris
 - painting metal work
 - repairing concrete
 - repairing lift equipment
 - lubricating gate slides

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.

- fish species and their behaviour
- basic fish biology
- fishway passage requirements
- operating rules for fishways

- fishway hydraulics
- fish handling
- blackwater events
- sampling and testing requirements
- maintenance requirements of fishway channel

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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