



Australian Government

NWPCAD015 Operate and maintain locks and weirs

Release: 1

NWPCAD015 Operate and maintain locks and weirs

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 operate and maintain locks and weirs.

It includes regulating flows through the weir and operating lock gates. It also includes scheduling and undertaking maintenance, inspecting equipment and collecting data.

This unit applies to those working as field staff with the responsibility for operating locks and weirs in remote locations. Those undertaking this unit will work independently under appropriate supervision while performing routine tasks in a range of familiar 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 Prepare for work

PERFORMANCE CRITERIA

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

1.1 Assess upstream flow and establish pool demand according to workplace procedures

1.2 Calculate inflow and outflow discharge rates according to workplace procedures

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|-----------------------------------|------------|---|
| | 1.3 | Develop operation and maintenance plan according to work schedule |
| 2 Operate locks and weirs | 2.1 | Operate the weir gates to control river flows and pool levels |
| | 2.2 | Store water in the weir pool and regulate river flow downstream |
| | 2.3 | Raise river level upstream of the weir to improve navigability of the river |
| | 2.4 | Operate the lock to allow river vessels to navigate through the weir |
| 3 Maintain locks and weirs | 3.1 | Inspect the equipment of the locks, weirs and navigational aids to identify maintenance needs |
| | 3.2 | Schedule and undertake maintenance tasks according to the operational and maintenance plan |
| 4 Finalise work | 4.1 | Collect data from monitoring points according to workplace procedures |
| | 4.2 | Compile reports from monitoring point data |
| | 4.3 | Identify and report current or potential operational problems to relevant personnel |

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 NWPSOU031 Operate and maintain locks and weirs.

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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