



**Australian Government**

# **NWPIRR005 Develop and review a surface water plan**

**Release: 1**

# NWPIRR005 Develop and review a surface water plan

## 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 develop and review a surface water plan. It includes ensuring environmental considerations are met and source of supply is maintained. It also includes applying and adhering to relevant legislation, industry regulations and workplace procedures.

This unit applies to leaders working in water organisations with responsibility for the development and review of surface water resources including but not limited to rivers and streams, dam catchments, flood retarding, overland flow controls and related drainage. It does not include flood routing through storages.

Those undertaking this unit would work autonomously and lead personnel whilst performing sophisticated tasks in a range of contexts.

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

## Pre-requisite Unit

Not applicable.

## Competency Field

Irrigation

## Unit Sector

Not applicable.

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

### PERFORMANCE CRITERIA

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

- 1 Prepare for surface water flow and quality management**
  - 1.1** Identify hazards, assess risks and implement control measures associated with surface water flow requirements
  - 1.2** Identify, interpret and synthesise relevant data to monitor and test water flow, quality and quantity requirements, including release figures
  - 1.3** Identify, interpret and analyse historic source water flow and system capacity information
  - 1.4** Identify and interpret environmental factors impacting surface water flows and quality
  - 1.5** Identify, interpret and review resource and operational protocols
  - 1.6** Complete complex calculations and incorporate analysed results into the surface water plan
- 2 Develop the surface water plan**
  - 2.1** Identify and interpret surface water management requirements
  - 2.2** Identify, interpret and validate stakeholder requirements impacting surface water
  - 2.3** Develop a surface water plan according to relevant legislation, industry standards and workplace procedures
  - 2.4** Identify, investigate and report breaches of surface water management controls
- 3 Review the surface water plan**
  - 3.1** Analyse and report deviations from planned performance measures
  - 3.2** Review objectives of the management and implementation plans
  - 3.3** Review parameters for water usage and quality through monitoring and testing programs
  - 3.4** Report and recommend changes to plan objectives, workplace procedures and usage and quality parameters
  - 3.5** Provide advice and guidance to water users and stakeholders

## **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.

## **Unit Mapping Information**

This unit replaces and is equivalent to NWPIRR063 Develop and review surface water management plan.

## **Links**

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>