



Australian Government

NWPIRR007 Implement and coordinate a surface water plan

Release: 1

NWPIRR007 Implement and coordinate 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 implement and coordinate a surface water plan.

It includes ensuring environmental and sustainability considerations are met, where appropriate source of supply is maintained and controls for surface water management including catchment land use, flow controls and retardation, release flows and managed usage are implemented and effectiveness monitored.

This unit applies to those working as leaders with responsibility for the management of surface water resources. Those undertaking this unit would work autonomously, leading staff, while performing sophisticated tasks in a range of familiar 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.

1 Develop and implement monitoring and testing

PERFORMANCE CRITERIA

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

1.1 Develop an implementation strategy for the surface water plan according to workplace procedures

programs

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| | 1.2 | Coordinate management plan activities relating to the surface water plan and determine responsibilities and timelines for implementation |
| | 1.3 | Plan, design and implement monitoring and testing programs |
| | 1.4 | Identify hazards, assess risks and implement control measures for monitoring and testing programs |
| | 1.5 | Gather historical surface water collection information and evaluate as input to the planning process |
| | 1.6 | Monitor water usage, water flow and water quality according to the plan |
| | 1.7 | Record and analyse test results and education programs |
| 2 | Monitor and evaluate performance of surface water plans | |
| | 2.1 | Review objectives of the surface water and implementation plans |
| | 2.2 | Identify, investigate and report deviations of surface water flows and controls from management objectives |
| | 2.3 | Monitor and review environmental factors impacting the collection of surface water |
| | 2.4 | Make recommendations for changes to plan objectives and procedures and usage and quality parameters |
| | 2.5 | Provide advice and guidance to water stakeholders |
| 3 | Report on monitoring and implementation activities | |
| | 3.1 | Identify and report deviations from the surface water plan |
| | 3.2 | Review and report operational problems of controls and regulations from the surface water and implementation plans |
| | 3.3 | Make recommendations for changes to plan objectives |

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 NWPIRR072 Implement and coordinate 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>

Assessment Requirements for NWPIRR007 Implement and coordinate a surface water plan

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and includes:

- designing and implementing testing processes and programs
- gathering, interpreting and synthesising information to underpin the implementation of a surface water plan including:
 - current legislation and standards
 - effectiveness of plan controls
 - historical data
 - stakeholder requirements
 - water quantity and quality test results
- implementing management plans for surface water to ensure environmental considerations are met and source of supply is maintained
- monitoring and evaluating the outcomes of the surface water plan
- preparing reports and recommendations for future action
- providing advice about water usage and communicating with stakeholders
- reading and interpreting numerical data related to surface water and environmental factors

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and includes knowledge of:

- climatic and weather characteristics and impacts
- environmental and sustainability considerations
- hydraulic analysis
- monitoring and performance procedures
- operation and interrelationships of surface water flows and controls
- operational and maintenance problems
- physical and regulatory control limitations
- relevant legislation, industry standards, regulations and workplace procedures
- risk management principles
- surface water system objectives

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations. Where this is not appropriate, assessment must occur in suitable simulated workplace operational situations reflecting actual workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- relevant and appropriate materials, tools, facilities, equipment and personal protective equipment currently used in industry
- applicable relevant documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

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