



Australian Government

NWPCAD006 Monitor and coordinate catchment operations

Release: 1

NWPCAD006 Monitor and coordinate catchment operations

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 monitor and coordinate catchment operations.

It includes inspecting and monitoring catchment areas, monitoring flows and coordinating catchment processes. It also includes collecting data and samples, monitoring and adjusting regulatory systems, identifying and investigating catchment problems and producing technical reports.

This unit applies to those working as field staff with a specific responsibility for monitoring and coordinating catchment operations. Those undertaking this unit would work under appropriate supervision while performing routine tasks ensuring minimum damage to the environment, in a familiar context. The level of responsibility may vary according to the size and complexity of the catchment area.

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.

PERFORMANCE CRITERIA

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

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|---|---|
| 1 Inspect and monitor catchment operations | 1.1 Schedule routine inspections of catchment areas to identify water quality risks |
| | 1.2 Collect, analyse and report catchment data according to workplace procedures |
| | 1.3 Collect and record water samples according to workplace procedures |
| | 1.4 Monitor and report on activities within the catchment area |
| | 1.5 Select, fit and use required safety equipment, including personal protective equipment |
| 2 Monitor inflows and outflows | 2.1 Inspect flow regulating systems and determine required adjustments to meet demand |
| | 2.2 Identify and report flows into, and conditions of, catchment areas |
| 3 Operate and coordinate catchment processes | 3.1 Identify, address and report problems within catchment areas to relevant personnel |
| | 3.2 Monitor and coordinate processes to maintain the parameters of operation |
| | 3.3 Integrate catchment processes to improve source performance |
| 4 Complete documentation | 4.1 Review and action investigation results according to workplace procedures |
| | 4.2 Compile reports from catchment inspections according to workplace procedures |

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 NWPSOU013 Monitor and coordinate catchment operations.

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 NWPCAD006 Monitor and coordinate catchment operations

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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:

- assessing and reporting on the condition of the catchment area
- calculating flow and capacity
- collecting samples
- completing documentation
- coordinating catchment processes
- identifying and addressing risks and hazards
- identifying and reporting on flows into the catchment area
- identifying catchment problems
- implementing actions resulting from investigations
- inspecting and adjusting flow regulating systems
- inspecting and monitoring catchment areas
- inspecting catchment areas and identifying water quality risks
- monitoring and integrating catchments processes
- monitoring catchment and collecting and reporting catchment data
- monitoring flows
- using safety equipment and personal protective equipment

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:

- communication systems
- control systems
- coordination processes
- effect of floods on water and wastewater treatment systems
- effects of weather and conditions on operation of catchment areas
- environmental aspects of catchment areas
- hazardous substances handling
- inspection of catchments

- policies and standard operating procedures
- pumping and valving systems
- relevant legislation, regulations, guidelines and workplace procedures
- risk factors and potential hazards involved with catchment area processes, equipment operation, capacity and limitations including:
 - pest control specifications
 - system layout and processes

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 workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate 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, equipment and personal protective equipment currently used in industry
- applicable documentation including legislation, regulations, codes of practice, workplace procedures and operation manuals.

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