



Australian Government

NWPCAD014 Inspect and report river performance

Release: 1

NWPCAD014 Inspect and report river performance

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 inspect and report river performance.

It includes inspecting and reporting on river flow performance of flood plains and river environments. It also includes monitoring river conditions, water quality, maintaining integrity of the bank, regulating and monitoring flows.

This unit applies to field staff with the responsibility of inspecting rivers. Those undertaking this unit would work under supervision, performing routine tasks, in 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 Identify river performance requirements

PERFORMANCE CRITERIA

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

1.1 Record river performance according to relevant legislation and workplace requirements

1.2 Identify and record river conditions according to

		workplace procedures
	1.3	Conduct a risk assessment of the riverbank and identify control measures
	1.4	Identify environmental factors impacting water flows and quality
	1.5	Select and check equipment to meet safety requirements of task and worksite
	1.6	Select, fit and use personal protective equipment according to workplace procedures
2	Inspect and monitor performance	
	2.1	Schedule and conduct routine inspections of rivers or waterways according to workplace procedures
	2.2	Monitor water quality and flows of rivers
	2.3	Adjust required flows based on hydraulics and environmental factors
3	Report on river performance	
	3.1	Collect, interpret and report on process data and compile report
	3.2	Compile river data report and discuss with relevant personnel
	3.3	Report observations outside defined parameters and report to relevant personnel for further action

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 NWPSOU030 Inspect and report river performance.

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 NWPCAD014 Inspect and report river performance

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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:

- adjusting river flows
- assessing water levels
- collecting, interpreting, compiling and reporting data
- conducting a risk assessment
- identifying performance measures for the resource and operations
- identifying water flow, water quality and water quantity requirements
- interpreting relevant standards and legislation and organisational procedures
- locating requirements
- planning inspections of the river system
- using appropriate safety equipment when conducting inspections

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:

- effects of weather and conditions on operation of river systems
- environmental aspects of river systems
- equipment operation, capacity and limitations
- methods for collecting and reporting on data
- normal river conditions
- relevant legislation, regulations and workplace procedures
- risk factors and potential hazards involved with river systems
- river system layout
- river systems flow regimes
- system flows and transit times

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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