



Australian Government

AHCNRM511 Plan and monitor works projects in catchments and waterways

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to plan, implement, monitor and review works projects conducted in catchments and waterways. This includes engaging and working with stakeholders and ensuring works meet environmental and project outcomes and priorities.

The unit applies to individuals who are engaged in contract project works in catchments and waterways who take personal responsibility and exercise autonomy in undertaking work. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex problems.

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

Pre-requisite Unit

Nil

Unit Sector

Natural Resource Management (NRM)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Inspect and assess catchment and waterways sites for inclusion in a works	1.1 Establish the environmental outcomes and priorities of the works program 1.2 Apply workplace health and safety policies and procedures, environmentally sustainable practices and biosecurity measures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
program	1.3 Conduct a site assessment to confirm the physical characteristics and health of catchment and waterways 1.4 Assess the range of operating conditions, hazards and sensitive environments for impact on proposed projects 1.5 Assess heritage and cultural values of sites 1.6 Consult project stakeholders on the scope and purpose of the works program
2. Plan works project	2.1 Consult with stakeholders to determine project priorities 2.2 Obtain permits, licenses and authorisations 2.3 Determine and source equipment and materials and personnel required for project 2.4 Confirm terms and conditions of project work with project stakeholders 2.5 Prepare plans and specifications for works project 2.6 Complete project documentation and communicate details to stakeholders
3. Monitor works project	3.1 Establish monitoring program according to works objective 3.2 Establish data benchmarks for evaluating the outcomes of project 3.3 Identify ongoing support required of contractors and project workers 3.4 Provide ongoing support according to identified needs in a timely manner 3.5 Monitor condition of the project site to ensure it is left in an agreed condition 3.6 Report outcomes of monitoring to workplace requirements
4. Review works program	4.1 Evaluate projects for compliance with agreed outcomes 4.2 Determine projects comply with environmental targets 4.3 Recommend changes to works program to achieve catchment and waterways priorities where non-compliance has been identified 4.4 Use a relational data management system for recording monitoring data and reporting to stakeholders

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Writing	Record outcomes of programs into relational database and reports expressing ideas and exploring complex issues in recommendations, ensuring accurate, succinct and logically constructed text
Oral Communication	Establish and maintain effective communications when negotiating and consulting with stakeholders on projects and when providing feedback on project performance

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCNRM511 Plan and monitor works projects in catchments and waterways	AHCNRM506 Plan and monitor works projects in catchments and waterways	Minor changes to Application and Performance Criteria for clarity Updated Performance Evidence, Knowledge Evidence and Assessment Conditions	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCNRM511 Plan and monitor works projects in catchments and waterways

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has planned and monitored at least one catchment and waterways project, and has:

- applied effective consultation techniques to ensure stakeholder contribution to project priorities
- researched and determined environmental conditions of project worksites
- worked with and supported project stakeholders during project implementation
- developed waterway monitoring program that must include:
 - selected representative water quality monitoring sites
 - selected macro invertebrate monitoring sites
 - used data collection guidelines and parameters
 - specified timelines for monitoring
- monitored project to ensure it complied with regulatory requirements
- evaluated impact of projects on sustainable catchment management
- determined the physical and human resources required for project
- determined monitoring procedures sufficient for evaluating and reviewing project
- evaluated environmental benefits of works program using workplace techniques and reporting methods
- completed reporting requirements according to workplace standards and stakeholders outcomes.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- physical characteristics and indicators of health of waterways and catchments
- wetland and floodplain processes and function, including:

- factors that influence stream flow
- stream dynamics
- stream formation
- eutrophication
- impacts of land use on waterways
- indicators of catchment health, including:
 - pest plant and animal infestations
 - vegetation decline
 - soil erosion
 - stream bank erosion
 - water quality decline
- water quality parameters, including:
 - physical and chemical properties of water
 - biological indicators of water quality
- project planning processes
- consulting and negotiating with stakeholders, including:
 - investors
 - partners
 - interest groups
 - agencies
- permits and licences required for on-ground works.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in an environment that accurately represents workplace conditions
- specifications:
 - workplace policies and procedures for monitoring and reporting
 - legislation and regulations for water catchment management
- relationships:
 - stakeholders
 - work team and/or contractors
- timeframes:
 - according to time specified in program for supporting project.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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