



Australian Government

AHCMAR302 Conduct intertidal marine monitoring

Release: 1

AHCMAR302 Conduct intertidal marine monitoring

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 conduct an intertidal marine monitoring operation associated with scientific research, baseline monitoring or inspection and assessment programs for marine intertidal areas. It does not include diving for scientific purposes.

The unit applies to individuals who work in a marine conservation and management role under broad supervision and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

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

Pre-requisite Unit

Nil

Unit Sector

Marine (MAR)

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. Prepare for intertidal marine monitoring	1.1 Confirm intertidal monitoring methodologies and work plan with supervisor 1.2 Select equipment and materials required for intertidal marine monitoring 1.3 Identify sources of expertise and advice 1.4 Identify hazards, assess risk and implement controls according to

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	workplace health and safety procedures 1.5 Confirm location and timing for fieldwork 1.6 Identify and implement biosecurity procedures for equipment and material used for fieldwork
2. Monitor marine intertidal communities	2.1 Identify species using industry approved identification resources 2.2 Operate monitoring equipment according to workplace procedures and manufacturer instructions 2.3 Conduct fieldwork practices using minimal impact techniques according to industry ethical practices and biosecurity procedures 2.4 Record monitoring data according to workplace procedures and monitoring instructions
3. Complete intertidal marine monitoring, and update records	3.1 Complete workplace records and report outcomes of monitoring to supervisor 3.2 Check and file data and confirm identification with supervisor or other experts 3.3 Clean, maintain and store equipment used for intertidal marine monitoring according to workplace and biosecurity procedures 3.4 Dispose of waste materials according to workplace and environmental procedures

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
Reading	Interpret guides and references to assist in the identification of marine species
Oral Communication	Interact using collaborative techniques, including active listening and questioning and reading of non-verbal signals, to clarify monitoring plan and methodologies

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCMAR302 Conduct intertidal marine monitoring	Not applicable	The unit has been created to address an emerging skill or task required by industry	Newly created

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 AHC MAR302 Conduct intertidal marine monitoring

Modification History

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

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 demonstrated intertidal monitoring techniques that include at least two of the following ecological communities:

- mudflat
- intertidal seagrass
- intertidal reef
- mangrove beds
- salt marsh
- rocky shores.

There must also be evidence that the individual has:

- interpreted, confirmed and followed intertidal marine monitoring fieldwork requirements
- conducted a risk assessment
- selected, prepared and operated equipment and resources for intertidal marine monitoring
- identified marine species, and confirmed identification with supervisor or expert
- applied techniques to minimise impact and applied ethical practices during fieldwork
- recorded marine intertidal monitoring data according to workplace procedures and monitoring instructions
- cleaned, maintained and stored marine monitoring equipment
- implemented biosecurity measures and procedures
- checked and stored data
- updated operational and marine species records
- reported outcomes to supervisor
- disposed of waste materials according to environmental and workplace procedures.

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:

- monitoring methodologies for marine intertidal fieldwork
- equipment and resources used for marine intertidal fieldwork, including:
 - cameras
 - tablets
 - identification resources
 - tape measures
 - quadrat frames
- operational parameters of intertidal areas that affect monitoring work, including:
 - tidal cycles and other inundation effects
 - seasonal variation
 - intertidal wildlife behaviour and life cycle
 - dangerous marine animals in the intertidal zone
- using and maintaining equipment in a saltwater environment
- workplace health and safety and risk assessment for tidal marine work
- impact of sediment mobility in the near shore environments on monitoring
- sources of expertise and advice for marine intertidal fieldwork
- minimising impact of monitoring techniques on the environment
- ethical practices for marine intertidal fieldwork
- biosecurity processes for marine intertidal fieldwork
- recording and storing collected data
- cleaning, maintenance and storage of equipment used for intertidal marine monitoring
- disposal of waste materials and impact on the environment.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated under conditions specified in the Performance Evidence
- resources, equipment and materials:
 - fieldwork and monitoring equipment
 - specific items of personal protective equipment
- specifications:
 - workplace policies, procedures, processes, records for conducting fieldwork
 - manufacturer operating instructions for monitoring equipment
 - workplace instructions and work plan
 - codes of practice for ethical handling of marine life

- relationships:
 - supervisor.

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

Links

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