



Australian Government

AHCMAR305 Monitor ocean conditions and marine environmental quality

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 monitor ocean conditions using sensors, sampling and laboratory analysis, and to monitor biological markers in marine environments. It does not include diving for scientific purposes (see AHCLPW307 Perform restricted 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. Plan marine water monitoring operations	1.1 Determine marine water and environment monitoring objectives and applicable operating procedures from monitoring plan 1.2 Determine sensors, sampling equipment, support equipment and materials required for monitoring operations 1.3 Identify personnel required for monitoring operations, and source

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	of expert advice 1.4 Determine schedule for monitoring activities within operational constraints 1.5 Identify and resolve logistical issues for monitoring activity 1.6 Identify partner organisations and clarify requirements for transporting, processing and analysing samples 1.7 Prepare a plan and timeline for a marine water monitoring program
2. Prepare to monitor ocean conditions and marine environmental quality	2.1 Confirm permission for marine monitoring program has been approved and notify stakeholders 2.2 Assemble, check and test monitoring and support equipment prior to deployment 2.3 Maintain, repair or replace faulty equipment 2.4 Prepare equipment and materials for transport to sampling site 2.5 Identify and source consumables required for monitoring program 2.6 Identify hazards, assess risk and implement controls according to workplace health and safety procedures 2.7 Review operating and emergency procedures for the marine monitoring work plan, and brief personnel
3. Monitor ocean conditions and marine environmental quality	3.1 Transport equipment and consumables to monitoring location 3.2 Prepare marine water monitoring equipment for deployment according to workplace and biosecurity procedures 3.3 Deploy equipment and implement monitoring procedure 3.4 Record marine water monitoring data 3.5 Monitor program and implement and record adjustments according to program requirements
4. Conduct post-monitoring operations	4.1 Secure and download recorded data 4.2 Secure, label and store samples for transport 4.3 Clean, service and maintain marine water monitoring equipment according to workplace and biosecurity procedures 4.4 Organise repair or replacement of faulty equipment 4.5 Store marine water monitoring equipment 4.6 Conduct a debrief session on performance of monitoring program

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.7 Maintain records and report activity and incidents according to workplace 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
Writing	Accurately record monitoring data and information using industry specific language following workplace formatting
Numeracy	Use basic computations to determine scheduling and timing of ocean monitoring activities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCMAR305 Monitor ocean conditions and marine environmental quality	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>