



Australian Government

Assessment Requirements for AHCMAR301 Conduct a subtidal marine monitoring operation from a vessel or platform

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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.

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 conducted at least two subtidal monitoring operations for benthic and fish communities using different techniques selected from the following:

- drop cameras
- baited remote underwater video stations (BRUVS)
- remotely piloted system.

There must also be evidence that the individual has:

- planned a subtidal marine monitoring operation from a vessel or platform for both benthic and fish communities
- obtained and assembled equipment and materials for subtidal marine monitoring operations
- checked the operation of underwater equipment, with particular attention to:
 - tethers, attachments, mounts and retrieval systems
 - seals and O-rings
 - soft pads
 - electrical connections/power supply
 - lenses and protective covers
- lubricated, cleaned, maintained and repaired underwater equipment
- briefed and de-briefed personnel on marine monitoring activity
- transported equipment and materials for subtidal marine monitoring to monitoring site
- stored equipment and consumables for subtidal marine monitoring
- implemented biosecurity measures
- secured and stored recorded data.

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:

- interpreting forecasts for marine weather, tides and sea conditions
- basic physics of the underwater environment and the relationships between equipment/monitoring techniques and depth, pressure, flow and light penetration
- computer hardware and software systems that support marine monitoring work
- marine monitoring equipment, including underwater equipment and housings
- risks associated with monitoring equipment, including:
 - condensation
 - pressure
 - water flow
 - retrieval complications
 - maintenance – including age, contamination and corrosion
- planning subtidal marine operations
- drivers of local and regional ocean circulation and conditions, including:
 - ocean current systems
 - weather patterns
 - tides
 - seasonal changes, including freshwater inflows
 - extraordinary storms and temperature events
- maritime regulations and approvals for commercial survey work on vessels
- workplace health and safety assessment for conducting subtidal marine monitoring
- biosecurity measures for subtidal marine monitoring techniques and equipment
- operating and emergency procedures for subtidal marine monitoring work.

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 the field and according to the conditions specified in the Performance Evidence
- resources, equipment and materials:
 - live marine life in situ
 - specific tools and equipment required for a monitoring program
 - specific items of personal protective equipment
 - materials and consumables
- specifications:
 - specific workplace procedures and processes for conducting monitoring programs

- manufacturer operating instructions for monitoring equipment
- workplace instructions for monitoring program
- relationships:
 - experts
 - supervisor
- timeframes:
 - according to timeframes specified in monitoring program.

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>