



Australian Government

Assessment Requirements for AHCMAR304 Identify and collect marine life

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.

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 collected, prepared, preserved and stored 10 marine life specimens, with representative samples from at least two of the following groups:

- marine algae
- marine invertebrates

There must be evidence that the individual has:

- fish identified and selected resources, equipment and materials required for identification, collection and storage of marine life
- identified sources of expertise and advice and followed workplace procedure for identification, collection and storage of marine specimens
- identified marine plants and animals using expertise, advice and workplace-provided resources
- used techniques for collecting and transporting marine life to minimise impact on the marine environment and specimens
- complied with animal ethical standards and biosecurity procedures
- handled preservation equipment and materials according to safety procedures
- applied preservation and storage techniques for small marine specimens according to workplace procedures
- cleaned, maintained and stored equipment and disposed of waste materials according to workplace procedures.
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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:

- marine zonation and terminology, including:

- supratidal, intertidal and subtidal
- photic and aphotic
- littoral, benthic, neritic and pelagic
- major marine substrate types, including:
 - mud
 - sand
 - rock
 - coral
 - rubble
- identification resources for marine algae, invertebrates and fish, including computer software
- 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
- equipment and materials required for collection and short-term to medium-term storage of small marine specimens
- simple techniques and processes for collection and short-term to medium-term storage of small marine specimens, including drying, freezing and ethanol
- minimal impact collection techniques for marine specimens
- ethical and animal welfare practices for collection of marine specimens
- biosecurity measures for collection and transport of marine specimens and collection/transport equipment
- permits and permissions required for collection for short-term to medium-term storage of small marine algae, invertebrates and fish
- sources of expertise and advice for identification of marine life
- workplace procedure for identification, collection and storage of marine specimens, and workplace biosecurity procedure
- workplace procedure and environmental procedures for disposal of waste materials
- workplace health and safety processes and procedures while collecting marine life.

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 for the marine species specified in the Performance Evidence
- resources, equipment and materials:
 - live marine life in situ
 - tools and equipment for collecting specimens

- equipment and materials for preparing, preserving and storing marine specimens
- specific items of personal protective equipment required for safe collection
- specifications:
 - specific workplace procedures and processes for ethical collection, preparation and storage of marine specimens
 - manufacturer operating instructions for collection, preserving and storage equipment
 - safety data sheets for materials used in preserving specimens
 - workplace instructions
- relationships:
 - experts
 - 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>