



Australian Government

Assessment Requirements for AHC MAR306 Operate mobile underwater vehicles

Release: 1

Assessment Requirements for AHCMAR306 Operate mobile underwater vehicles

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, on at least one occasion, prepared and operated a mobile underwater vehicle, and has:

- read, interpreted and completed documentation, including:
 - marine charts/maps
 - marine forecasts
 - operating and emergency procedures
 - logs associated with underwater vehicle operation
- identified and prepared mobile underwater vehicle and associated equipment
- transported mobile underwater vehicle to and from location
- assembled mobile underwater vehicle and conducted pre-dive checks on location, with particular attention to:
 - tethers, attachments, mounts and retrieval systems
 - seals and O-rings
 - soft pads
 - electrical connections/power supply
 - lenses and protective covers
- deployed and operated mobile underwater vehicle safely according to operational plan and workplace procedures
- monitored operational threats and adjusted operating parameters as required
- responded to contingency situations
- retrieved and secured mobile underwater vehicle and associated equipment
- cleaned, maintained and stored underwater vehicle and equipment
- retrieved records and data from vehicle/camera
- recorded underwater vehicle operations

- performed a workplace health and safety (WHS) risk assessment for underwater vehicle operations.

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:

- appropriate techniques and workplace procedures for the operation of mobile underwater vehicles for conservation work
- identification and names of types and parts of mobile underwater vehicles and associated equipment, including:
 - winches and cables
 - monitors
 - power supply
 - global positioning system (GPS) and sonar
- workplace procedures and marine regulations that relate to mobile underwater vehicles
- marine weather, sea conditions and forecasting
- interpreting marine charts and sonar maps/records
- logistical and technical requirements for operating mobile underwater vehicles
- the 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
- equipment risks associated with operation of mobile underwater vehicles, including:
 - condensation
 - pressure
 - water flow
 - fouling and retrieval complications
 - maintenance – including age, contamination and corrosion
- biosecurity measures for operation of mobile underwater vehicles
- marine WHS, hazard identification and risk control measures.

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 or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - mobile underwater vehicle and associated equipment
 - tools for assembling, dismantling and maintaining equipment
 - personal protective equipment

- specifications:
 - workplace procedures and processes for mobile underwater vehicle operations
 - manufacturer operating instructions for mobile underwater vehicle and equipment
 - workplace instructions
- 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>