



Australian Government

MAR31222 Certificate III in Autonomous Maritime Systems

Release 1

MAR31222 Certificate III in Autonomous Maritime Systems

Modification History

Release 1. This is the first release of this qualification in the MAR Maritime Training Package.

Qualification Description

This qualification is suitable for people working in the maritime industry in the capacity of:

- Autonomous Underwater Vehicles (AUV) Operator
- Autonomous Surface Vessels (ASV) Operator
- AUV Technician
- ASV Technician

This qualification reflects the skills and knowledge required to conduct AUV and USV operations in Near Coastal (NC) waters within the limits of the operators AMSA Certificate of Competency.

Please note: RTO to insert on the testamur the job role and specialisation, if applicable, selected from the group choice below.

Entry Requirements

Australian Maritime Safety Authority (AMSA) certificate of competency for Coxswain Grade 1 NC as defined in MO505, or

An equivalent or higher level of achievement in the command, navigation, or operation of vessels equal to or greater than 12 metres in length in Near Coastal waters.

Packaging Rules

Total number of units

- AUV Operator = 4 units; 2 core units, plus all units from Group A
- ASV Operator = 4 units; 2 core units, plus all units from Group B

Specialisation

- AUV Technician = 5 units; 2 core units, all units from Group A, plus 1 unit from Group C
- ASV Technician = 5 units; 2 core units, all units from Group B, plus 1 unit from Group D

Core units

MARH034 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS) operations

MARH035 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS)

Group A: AUV Operator

MARH030 Apply knowledge of core Autonomous Underwater Vehicles (AUV) operations
└ MARH035 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS)
└ MARH034 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS) operations

MARH032 Conduct advanced Autonomous Underwater Vehicles (AUV) operations
└ MARH035 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS)
└ MARH034 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS) operations
└ MARH030 Apply knowledge of core Autonomous Underwater Vehicles (AUV) operations

Group B: ASV Operator

MARH031 Apply knowledge of core Autonomous Surface Vessels (ASV) operations
└ MARH035 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS)
└ MARH034 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS) operations

MARH033 Conduct advanced Autonomous Surface Vessels (ASV) operations
└ MARH035 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS)
└ MARH034 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS) operations
└ MARH031 Apply knowledge of core Autonomous Surface Vessels (ASV) operations

Group C: AUV Technician

MARF058 Apply knowledge of Autonomous Underwater Vehicles (AUV) technical management
└ MARH035 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS)
└ MARH034 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS) operations

- └ MARH032 Conduct advanced Autonomous Underwater Vehicles (AUV) operations
- └ MARH030 Apply knowledge of core Autonomous Underwater Vehicles (AUV) operations

Group D: ASV Technician

- MARF059 Apply knowledge of Autonomous Surface Vessels (ASV) technical management
- └ MARH035 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS)
 - └ MARH034 Demonstrate fundamental knowledge of Autonomous Maritime Systems (AMS) operations
 - └ MARH033 Conduct advanced Autonomous Surface Vessels (ASV) operations
 - └ MARH031 Apply knowledge of core Autonomous Surface Vessels (ASV) operations

Qualification Mapping Information

This is a new qualification. No equivalent qualification.

Links

Companion Volume Implementation Guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>