

AUTONOMOUS MARITIME SYSTEMS FUNDAMENTALS (PART A)

COURSE ALSO KNOWN AS:
AMS FUNDAMENTALS

Provides an introduction to Autonomous Underwater Vehicle and Unmanned Surface Vehicles technology, key terminology, operating concepts and system capabilities/limitations.

Designed for personnel who need to start building their knowledge of Autonomous Maritime Systems, ie both AUVs and USVs. It is ideally suited to individuals who need an understanding of Autonomous Maritime Systems, but at this stage of their careers do not need to directly operate them.

The course is delivered through either remote or face to face theory sessions followed by question and answer sessions to provide candidates with optimal learning outcomes.

CONTENT

- Introduction to autonomous maritime systems
- Introduction mission profiles and planning
- Autonomous systems workflows and teams
- Data formats, conventions and management
- Launch and Recovery Systems
- Vehicle localisation, navigation and communication in the surface and underwater environments
- Introduction to autonomous mission risks and mitigations
- Introduction to managing lost vehicle situations
- Introduction to hydrodynamics and hydrostatics
- Sensing above and below the water with optics, acoustics and RF
- Introduction to Post Mission Analysis and Vehicle Performance Analysis
- Vehicle thrust, power and control systems
- Autonomous systems mission scenarios and near-future capabilities
- AUV case studies: discussions of lessons-learned

PREREQUISITE

No prerequisite training is required.

OUTCOME

Participants who successfully complete this course will be eligible to receive an Australian Maritime College Certificate in Autonomous Maritime Systems (AMS) Fundamentals.

COVID-19 VACCINATION

AMC Search (AMCS) is operating a COVID-Safe campus aligned with the protocols and procedures established by the University of Tasmania. The safety and wellbeing of staff, students and the broader community is an absolute priority for the University of Tasmania.

We strongly encourage everyone to remain up to date with their COVID-19 vaccinations but no longer require our students to be vaccinated to come to our university campuses, facilities or events.

PAYMENT OPTIONS

Payment methods accepted:

- Register now and pay later (payment required 15 days before the course starts)



DURATION: 2 days

NO COURSE OPTIONS CURRENTLY AVAILABLE

We do not currently have any scheduled openings for this course.

To express interest, please [contact us](#).

COURSE AVAILABLE ON DEMAND

This course is available on demand, delivered at various locations. To express interest, please [contact us](#).

RELATED COURSES

[Autonomous Underwater Vehicle \(AUV\) Basic Operator Training](#)

- Credit Card (online or via (03) 6324-9850)
- Bank Deposit
- Company sponsorship.

Detailed payment options are available [here](#).

REGISTRATION TERMS

Face to face courses

Cancellations up to 15 working days prior to the scheduled date will be accepted without penalty. Cancellations less than 15 working days will be subject to 100% cancellation fee.

AMC Search reserves the right to cancel the course 15 working days prior to the scheduled date if insufficient registrations are received. Any fees paid for cancelled courses will be refunded in full.

When making flight bookings please ensure you book on a fully refundable basis.

Online courses

Payment of course fees, or authorisation to invoice from your company, is required before access to the online learning environment is provided. Please note, it will take between 2-4 business days to provide your access to the online course if you have not studied previously with AMC Search, the Australian Maritime College or the University of Tasmania.

LAUNCESTON, TAS

Location: Australian Maritime College, Newnham Drive, Newnham, Launceston, Tasmania.

Airport Transfers: Participants arriving at Launceston Airport should make their way to the Australian Maritime College, Newnham Drive, Newnham. Taxi fare from the airport is approximately \$55.00.

Parking: Complimentary car parking is provided on campus in areas designated to AMC Search participants and clients.

Launceston Accommodation: On-campus accommodation in Launceston can be reserved via the online enrollment form. Further accommodation information is available [here](#), together with off-campus options.

NORFOLK HALL ON-CAMPUS ACCOMMODATION

We offer affordable on-campus accommodation that's ideal if you're taking part in a course at our campus in Launceston, Tasmania.

[Norfolk Hall](#) offers Motel Style accommodation for \$100 per night (bed only). On-campus accommodation in Launceston can be reserved via the online enrolment form.

Norfolk Hall is situated on the main campus of the Australian Maritime College at Newnham, Launceston, which is where most of our courses take place.

Accommodation at Norfolk Hall provides the following facilities:

- Queen size beds
- En-suite facilities
- Television
- Fridge
- Rooms serviced daily (excluding weekends)

Affordable meals are available at the on-site AMC Cafeteria.

You can reserve a room when you register for your course or via email AMCS.courses@utas.edu.au or telephone: +61 3 6324 9850.

CLIENT PREMISES

This course is portable and available to be conducted on client premises. To discuss, please

contact AMCS.Training@utas.edu.au or telephone (03) 6324 9850.

REMOTE DELIVERY

Delivery is via video conference.