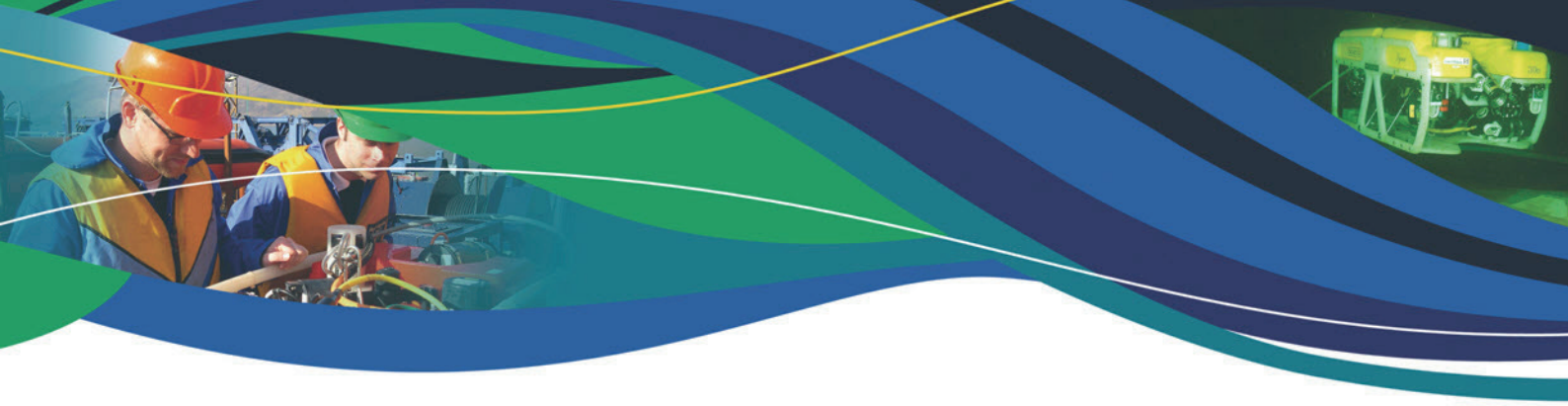


ROV Pilot Technician Course

The Underwater Centre's three-week Remotely Operated Vehicle (ROV) Pilot Technician Course provides practical experience and an all-round understanding of ROV systems and operations. This classroom and practical, jetty-based course provides hands-on, live flying of an industry-standard observation class ROV. Candidates will learn to navigate and fly the ROV in a challenging, open-sea environment, providing knowledge and experience that will allow them to work safely and efficiently.

Key Skills

Candidates will be assessed throughout the course and will receive competency-based assessments in:

- ROV Team Operations;
- Launch & Recovery Systems;
- Search and Recovery Tasks.

Certificates Gained

Candidates will receive the following internally verified certificates:

- ROV Piloting Engineering Skills;
- ROV Pilot Technician Induction Training.

Benefits of Training at The Underwater Centre

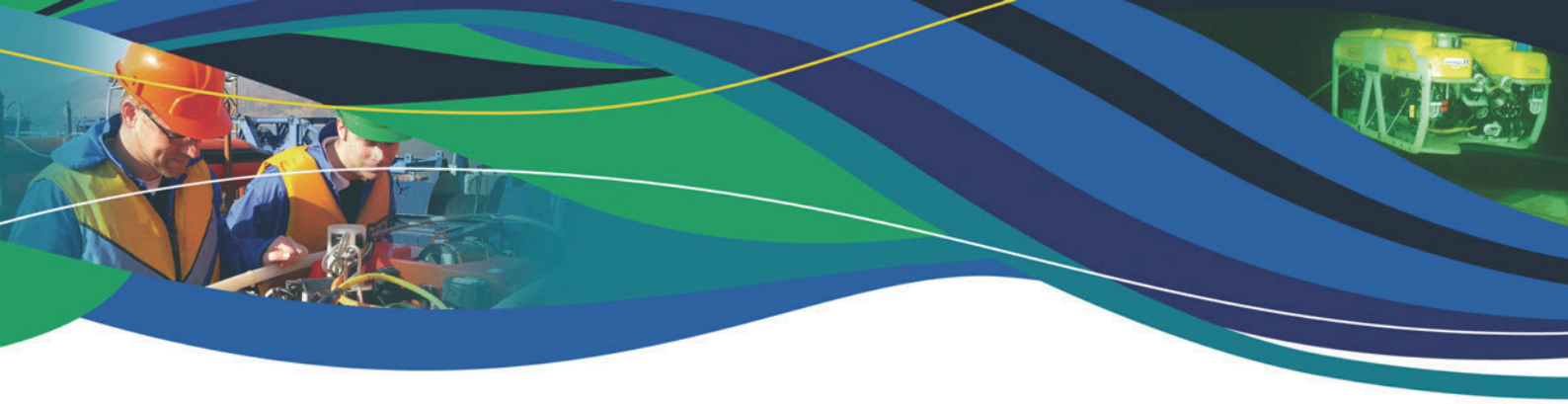
- First hand experience of industry-standard, observation class ROV systems;
- Working in a tidal, seawater environment, providing operational experience in tides, currents, poor visibility, zero-light and hostile environments;
- Easily accessible jetty/ pontoon complex and training site for convenient and time-efficient training;
- Industry-experienced instructors;
- Real-life, purpose built subsea work area including a sunken wreck and pontoon, pipelines and subsea welding station.

An Introduction to ROVs

The course details the different types and classes of ROVs, providing an insight into these systems, concentrating particularly, but not exclusively, on systems working in the offshore oil and gas industry. System and environment safety are the starting point for lectures.

Being a competent ROV pilot technician is more than just being able to pilot an ROV well. In reality, the flying of ROVs is only a small part of the skills needed by a pilot tech. Whilst good hand-to-eye co-ordination and spatial awareness are essential qualities, they tend to be acquired with time 'on the stick' i.e. flying. What makes a good ROV pilot tech stand out is the ability to quickly identify and remedy faults and defects that occur on the system. Our aim is to ensure that candidates obtain at least 8 hours each in real, 'live' ROV flying within 40 hours (five days) working as part of an ROV team, made up of a maximum of four people. This will include the following typical duties, all carried out in a real, industry environment:

- Co-piloting, video and dive logging, DVD recording and editing;
- Sonar and crane operations;
- Tether management;
- Anode, hull, pipeline and shipwreck surveys;
- Radio communications control and inter-team communications.



Dealing with Difficulties

During the flying time, difficulties will occur – either with snagging of tethers, failure of systems, entanglement, poor visibility or strong currents. Part of the training will be in how to deal with these common difficulties. For this, there is no substitution for real-life situations such as those candidates will experience at The Underwater Centre.

Sensors, Tools and Flying

The wide variety of sensors and tools that are now fitted to ROV systems is covered, with particular emphasis on acoustic sensors including the navigational sonar systems. Candidates will experience a number of flying exercises:

- Search and recovery (using ROV manipulators and other methods);
- Sonar mapping exercises;
- Site survey exercises;
- Zero-visibility flying exercises;
- Controlled tether buoyancy;
- Use of Launch and Recovery Systems (LARS) and Tether Management System (TMS).

Throughout, all flying exercises will be conducted as if carried out on an offshore contract. Candidates will be required to provide commentary whilst flying, maintaining a full and complete video and written log, for which assessments will also be carried out.

Live Flying

Flying begins with an important safety induction tour of our site, issuing of PPE and instruction on emergency procedures, an overview of Hi-Ab Telescopic Crane LARS safety and operation and an overview of LARS safety and operation.

ROV operations then begin. Candidates will be provided with an overview of the controls, line insulation monitor (LIM), sonar, recording/ editing system, walkie-talkie procedure, and video and dive logging. Along with learning to fly the ROV, candidates will also learn about station keeping, and docking and un-docking the ROV in the cage.

Inspection work of different structures in the water will be undertaken, including boat hulls, a pipeline, shipwreck and anodes, all located on the Tamar Estuary where the training takes place.

Assessments

Assessments during the course are undertaken on an ongoing basis, both theoretical and practical. Candidates are also required to complete a practical soldering exercise and cable splice, which is also assessed. The cable is thrown into the sea, to be searched for and recovered and then tested to ensure the cable is waterproof, and all joints complete when tested using a megger. Weeks two and three of the course are a combination of classroom studying and ROV flying from our jetty.

Get in Touch

For more details of the course content, our location and facilities, or for dates and prices, contact our Student Advisors; tasmania@theunderwatercentre.com or call **+61 3 6383 4844.**

This course is being run with space for only 4 candidates.