



IUTech

INSTITUTE
FOR UNDERWATER TECHNOLOGIES
AND HUMAN RESOURCES



ROV PILOT COURSE





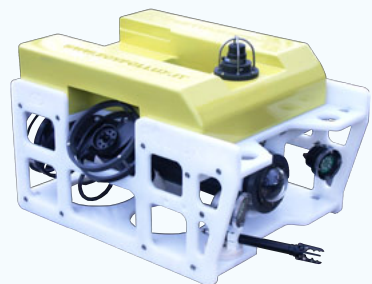
The I-UTECH Consortium

I-UTECH is a consortium made up of companies which have been operating for many years in the field of service and industrial underwater works. The search for highly specialized personnel capable of resolving effective needs have led the companies to concern themselves firsthand with the formation of human resources.

Born from the synergy of these companies, the I-UTECH consortium operate exclusively in the professional formation sector in industrial underwater activity and proposes to form highly specialized human resources of interest on the work market in the offshore sector.

The activity of I-UTECH is characterized by two formative segments:

- **Courses for ROV pilots**
- **OTS Courses for deep and shallow water**



ROV Pilot Course

The ROV (Remotely Operated Vehicle) course allows for the acquisition of the necessary and essential skills for becoming a specialized technician in guiding remote operated underwater robots.

The ROVs have differing forms, dimensions and characteristics depending on the mission in which they are utilized. They can use varying manipulating instruments which give the pilot the possibility to effect the most varying of operations, from the connection to an underwater conductor to a platform or to the cut of a structure or to the recovery of material or objects.

They can have measuring devices to determine polluting substances, metal detectors, Geiger counters, high resolution photo cameras, video camera, GPS to project the sea point etc. The ROVs can even be used in depths which are off limits to man; there are in fact models which can operate in up to 6.000 meters of depth.

The ROVs are also utilized for all those activities which are too risky for man, or rather carried out in environmental conditions which cannot be endured by man (pollution, extremely low water temperature, strong currents, other environmental dangers). The ROV pilot, in particular one that operates in the oil field sector, carries out such activities piloting the apparatus from on board ships or platforms. In addition to the guide, the ROV pilot sees to the maintenance and repair of the ROV for eventual problems of electronic, oleo dynamic or mechanical nature. Lastly the ROV pilot supplies continued consultation to the manufacturers for an improvement of the ROV systems used and for the experimentation of new apparatuses.



Program

The course provides for the achievement of the qualification IMCA ROV Pilot/Technician Grade II; competence standards are legible at link <http://www.imca-int.com/>.

The contents of the course are in line with the IMCA C 005 guide-documents and IMCA R 002, to which I-UTECH adheres to thoroughly.

Program

Introduction to the course

- Activity and presentation of the course
- Work aspects
- Ethic and Professionalism
- Teamwork

Offshore safety

- Emergency procedures
- Safety instruments
- Work risks

Offshore structures and Naval Equipment

- Differences between naval equipment and structures
- Fundamental rules for Offshore permanence

Types of ROV

- Groups and differences
- Technical specifics
- Working use and differences

Principles of Piloting and navigation

- Piloting
- Technical aspects
- Piloting Instruments
- Navigational Instruments
- Sonar

Working documents

- Video Log
- Dive Log
- General forms

Launch and recovery systems and equipment

- Introduction to launch and recovery systems
- Specifics
- Differences in launch and recovery systems

ROV applications

- Introduction to the use of ROVs in various sectors
- Various types of work carried out Onshore and Offshore

Effects on the environment in ROV operations

- Introduction to the possible causes of pollution on the environment in ROV operations

Electronic Fundamentals

- Introduction to what are ROV electronics and what purpose they serve
- ROV electronic problems tied to the environment
- Fault and Finding fundamentals
- Control and measuring instruments

ROV Electrical Systems

- Introduction to high voltage precautions
- Components and transformers

Electrical Maintenance

- Instruments and protective machinery
- Basic introduction for the maintenance of electrical and electronic components
- Control and measuring instruments

Oleo dynamic Fundamentals

- Basic principles

ROV Hydraulic systems

- Protective equipment
- Introduction to the components

Mechanical Maintenance

- Instruments and protective equipment
- Basic introduction to the maintenance of mechanical components
- Controls and measuring instruments



ROV Auxiliary Systems

- Introduction to the ROV auxiliary equipment
- Pipe tracker
- Sonar
- Dual profiler
- Beacon
- Manipulators
- Gyro
- Boom Camera
- Cutting instruments
- Others

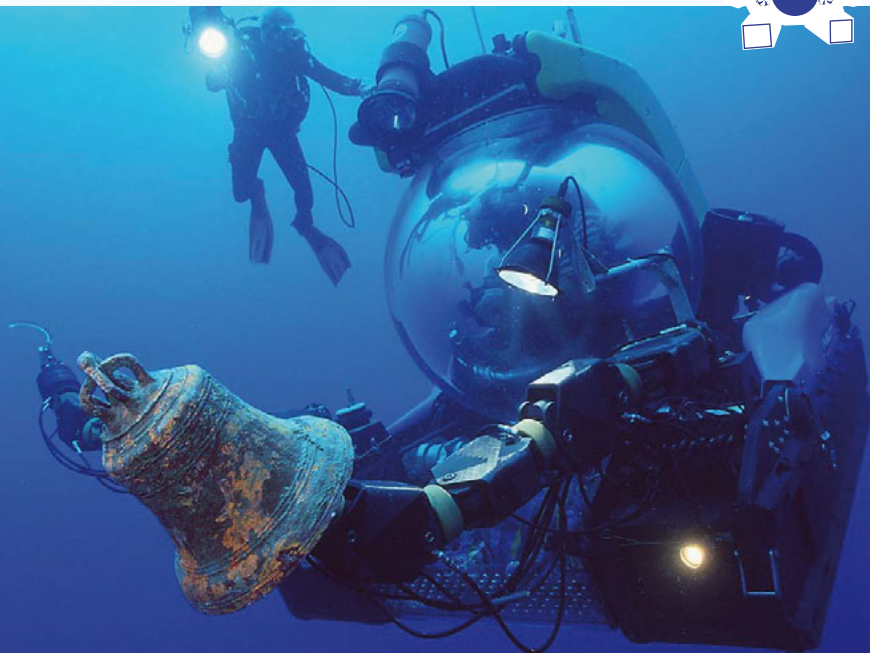
Comprehension check test

Practical Pilot Training End of Course Exam

Certification

Regarding the competence certification, the course responds to the standards required by IMCA (International Marine Contractor Association) and supplies all the skills foreseen by the professional figure ROV Pilot/Technician Grade II or rather:

At the end of the course Pilots will be given the IMCA Log-Book, an indispensable instrument of certification of the competences recognized by the majority of Contractors.



For additional information contact:

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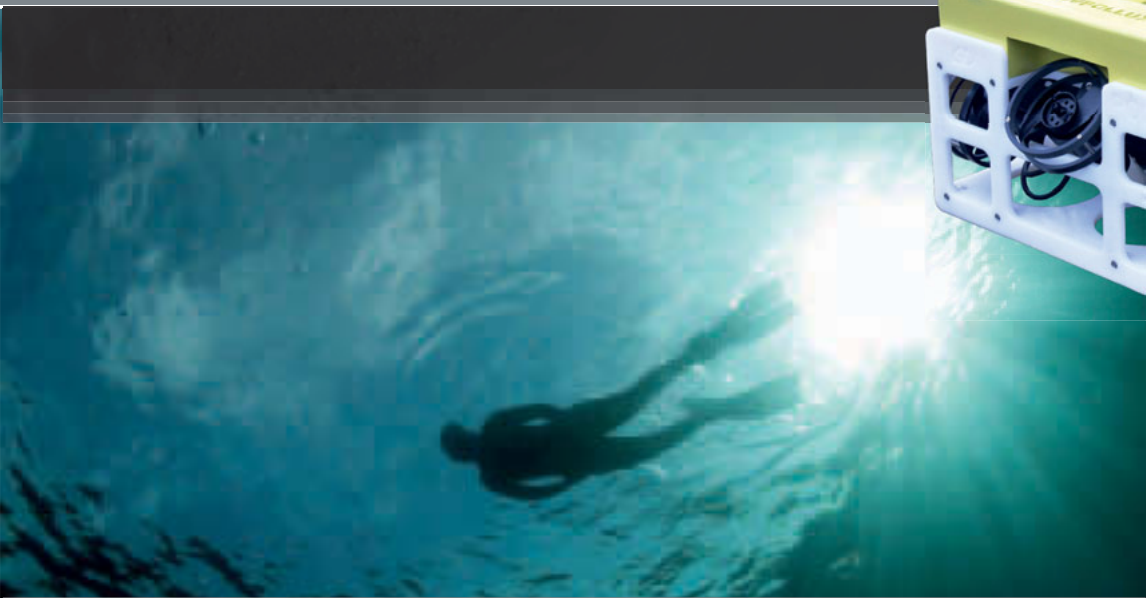


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