



*SubNet Services Ltd. Is a UK registered company.  
SubNet Services Ltd. Are IMCA Training members*

*SubNet Services Ltd have been accredited UKAS 9001  
for our e-learning, training & recruitment.*

*Don't Wait Contact Us Now to  
Start your ROV Training Immediately - Today  
24hr Worldwide: **+44 (0) 8458 692038***

*Remember you can also do your BOSIET Offshore Survival and  
UKOOA Medical with us at a saving while on the ROV Course.*



American Welding Society

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## ROV04S Commercial Oilfield ROV Pilot Technician Course

This course is fully conducted at our training premises.  
If you wish to save time and money as well as start this course on line TODAY  
you need to do the E - version where part of the course is done on line please  
contact us immediately for access.

This is our Premier ENTRY LEVEL ROV COURSE for new entrants to the ROV  
industry who have NO electronic technical certification and who wish to offer a  
broader range of skills to employers including training on all IMCA R04 competencies  
for the IMCA position of ROV Pilot Technician Grade 2.

Successful delegates who pass the Fiber Optics Module in this longer course will also  
be offered the FOA examination. This will qualify delegates as accredited Certified Fiber  
Optics Technicians. Giving them the option of immediately becoming employable as  
Fiber Optics Technicians as well as ROV Pilots.

Also includes extra Hydraulics / Electrical / Sonar / Manipulator training etc.

The Course content is in line with guidance documents IMCA R002, IMCA R010,  
IMCA C005 – R04, SNR04, SNR1005 and TEL2001



Welcome To SubNet Services Ltd

## ROV04S – Commercial Oilfield ROV Pilot Technician

This course is fully conducted at our training premises.

### GET COMPETENT

This is the very first course you will need to take in order to allow you to work offshore as a ROV Pilot Technician. Delegates passing this course will be graded competent as an IMCA R04 Pilot Technician Grade 2 which is THE ROV Industry entry level requirement.

#### MODULES INCLUDED

- R1002 - ROV Familiarisation Basic Introductory Module
- R010 - Basic ROV Pilot Technician Module
- R04 - ROV Pilot Technician Grade2 – IMCA R04 Competency Training Module
- SNR04 - SubNet Hydraulics, Electrical & HV Safety with Fiber Optics Module
- SNR1005 - Electronics for ROV Pilot Technicians
- TEL2001 - (CFOT) Certified Fiber Optics Technician

### INDUSTRY STANDARD

Built upon the IMCA minimum competency requirements document (IMCA C05 – Job Title - R04) the Commercial Oilfield ROV Pilot Technician course delivers training on the full Industry standard competencies and goes further with additional competencies. These competencies are recognised by all IMCA member ROV companies worldwide.

On the ROV04 Commercial ROV Pilot Technician Course you will pilot the ROV's on underwater exercises over simulated offshore oilfield obstacles such as:

- |                              |   |
|------------------------------|---|
| • Sub Sea Pipeline to survey | • Anodes                                  |
| • Valve work                 | • Simulated Oil Rig Structure Inspections |
| • Bracing Node               | • Xmas Tree                               |
| • Sonar Work                 | • Video inspection Techniques             |
| • Ship Wrecks                | • Possible Manipulator Tasks              |

#### All Latest Requirements Included

**IMPORTANT:** This course includes training on all the new IMCA R04 Grade 2 Competencies

It also includes the new requirement of ROV Familiarisation Basic Introductory Module entirely free.



## Why become an ROV Pilot Technician?



### SKILLED PROFESSIONAL

The Job of a Remotely Operated Underwater Vehicle (ROV) Pilot Technician is varied and exciting. The ROV Pilot Technician is a Highly Respected member of any offshore subsea project team. He can earn a superb living for himself and or family.



### GOOD PROMOTIONAL PROSPECTS

Its a Well Respected, exciting and rewarding Career. There are good promotional prospects for the newcomer. The route to the top is usually as follows. Rov Pilot Tech 2 Course then work as a Rov Pilot Tech 2 with promotion to ROV Pilot Tech 1, ROV Supervisor and then after over 5 years experience perhaps to the highly acclaimed position of Company Representative.



### LIFESTYLE

Salaries are High for a Pilot Technician average 750 USD and even higher for a ROV Supervisor depending on work location. He will receive good leave to see his family throughout the year and as many other offshore workers do he will probably see more of his family in real time than do many of those working at home in a 9-5 job. Think of it. High Salary, Paid Travel and Good Leave Schedules its not long before you and your family are enjoying a good lifestyle. Taking in a holiday any time of the year, meeting your partner after a job completion in perhaps Mexico. Able to buy that bigger house you have always dreamed of or just the fact that you can take time off wherever you need it for whatever you want.



### WORLD TRAVEL

The oilfields of the world are located all over the planet and we send our Pilots to places such as Mexico, USA, Russia, UK & Europe, Middle East, Asia, Africa, China and Australasia. The varied and exciting work will take the pilot anywhere in the world to complete underwater tasks such as Oilfield, Scientific, Salvage and inshore works. One month a Pilot for example could be working in an oilfield in Mexico and the next month he could be on a salvage operation in the South China Sea. All travel and expenses are paid by the companies.



## Why Train with SubNet?



### IMCA Members

SubNet are IMCA members and offer the IMCA syllabus for all our ROV Pilot Technician Courses.

### Quality Instructors and facilities

We use only quality instructors with many years experience in the field. You get maximum hands on flying time as we have 3 ROV vehicles on site.

### Certification

SubNet issue certificate recognised by all IMCA ROV companies to all delegates who pass the course. SubNet also issue IMCA ROV log books. SubNet supply ROV personnel world wide to all the major ROV companies and place all delegates where possible with themselves or their clients. Near the end of the course your Resume will be forwarded to our operations managers and also all our Client ROV Companies to help place you.

### Cost effective

Our courses are cost effective as they are held in Subic Bay the Philippines in cooperation with IDESS Maritime Centre (Subic) Inc., a world class marine and internationally accredited and recognised maritime safety training establishment with excellent facilities.

SubNet have added the best offshore oilfield simulated mock ups such as a simulated oilfield platforms bracing node, pipeline, anodes, valve assemblies and xmas tree to fly and perform tasks on.

We use the Philippines as it gives us good training conditions all year round. the money we are able to save we can re invest in better equipment and training. We are a UK company training professionals from UK but also from USA, Canada, Australia and all over the world.

### Great Location

Subic Bay, Philippines is an ideal location for us to provide the ROV training as you can see when you look at the web site. Clear water, warm, good offshore oilfield simulated facilities at IDESS Maritime Training Centre and low cost of accommodation and living etc.

### Recreation

SubNet's training location has many recreational activities close by, allowing delegates to relax at weekends, dive some of subics great wrecks, trek the jungle, hire a jetski and many more activities to let your hair down and relax/enjoy some recreation.

An off-course extra (not guaranteed as not part of the course) is the possibility of using the ROV to inspect the wrecks of Subic such as the Battleship New York, A jet fighter etc.



In May 2009 IMCA ROV Division Issued The Following Recommendations:

*" It is recommended that new personnel to the ROV industry attend an introductory module before their first trip offshore. This can be provided by a recognised training establishment, or alternatively by the ROV contractor. "*



### Included Offshore Introductory Module

Yes if you have never worked offshore before it is an IMCA recommendation for all ROV personnel to undergo a 2nd course being a ROV Familiarisation Basic Introductory Module before going offshore for the first time.

SubNet Services Ltd offer this ROV Familiarisation Basic Introductory Module to all delegates enrolled on the entry level ROV Courses so preparing you to go straight to work.

When booking the SubNet ROV04 ROV course you will automatically be given access to our online training area to complete the included ROV Familiarisation Basic Introductory Module.



### ROV Familiarisation Basic Introductory Module

The SubNet ROV1002 ROV Familiarisation Basic Introductory Module online course is meant to deliver this outline knowledge.

In the IMCA recommendation 'outline knowledge' means that the person should be familiar with the subjects in outline terms only and be able to demonstrate such outline knowledge of the subject matter by answering suitably worded questions. Subnet Services have developed this course to deliver those requirements.

You can take this course at home over the internet and then be assessed at our training and assessment centre while doing the main ROV04 course.

## Built upon Industry Standard Competencies

This course DELIVERS THE FULL COMPLETE IMCA R-04 COMPETENCES from the IMCA C005 rev2 ROV Competency Document that are the minimum competences needed to enter the ROV industry as a ROV Pilot Technician Grade 2 by all IMCA ROV Member Companies.



## Additional Competencies

PLUS at NO EXTRA CHARGE Subnet ADD EXTRA competences that the ROV companies have expressed to us as being necessary and have asked us to include within our training for new Pilots who wish to join the ROV industry.

## Added Certification

Successful delegates who pass the Fiber Optics Module in this longer course will also be offered the FOA examination. This will qualify delegates as accredited Certified Fiber Optics Technicians. Giving them the option of immediately becoming employable as Fiber Optics Technicians as well as ROV Pilots.



## R1002 ROV Familiarisation Basic Introductory Module Content

Competence	Knowledge	Ability
Modules	<ul style="list-style-type: none"> <li>• Changes Issues and Standards</li> <li>• Knowledge of Company Accident Reporting</li> <li>• Offshore Hazard Identification</li> <li>• PPE and Safety Awareness</li> <li>• Risk Assessment Physical Hazards</li> <li>• Safe Working Practices</li> <li>• Safe Workshop Practice</li> <li>• Offshore Job Descriptio</li> </ul>	<ul style="list-style-type: none"> <li>• Subsea Equipment</li> <li>• Typical Offshore Operations and Installations</li> <li>• Typical Offshore Vessels</li> <li>• ROV Handling Systems</li> <li>• ROV History Development &amp; Limitations</li> <li>• ROV Tooling and Sensor Fits</li> <li>• Typical Operations</li> <li>• ROV Lifting Equipment Maintenance Testing and Operation</li> <li>• ROV Crew Job Titles Qualifications and Competence</li> </ul>

## R010 Basic ROV Pilot Module Content

Competence	Knowledge	Ability
High Voltage Electricity	<ul style="list-style-type: none"> <li>• Introduction to HV systems</li> <li>• Safety</li> <li>• Certification</li> <li>• Standard labelling/certification</li> <li>• Codes of practice and certificates</li> </ul>	<ul style="list-style-type: none"> <li>• Description of system components</li> <li>• Repair/maintenance</li> <li>• Use of test equipment</li> <li>• Fault finding techniques</li> <li>• Planned maintenance procedures</li> </ul>
Electricity in Hazardous Areas	<ul style="list-style-type: none"> <li>• Hazardous area classification</li> <li>• Safety</li> <li>• Certification/Labelling</li> </ul>	<ul style="list-style-type: none"> <li>• Environment</li> <li>• Flammable gases and vapours</li> <li>• Flameproof inspection and maintenance</li> </ul>
Crane Operations, Lifting and Winches	<ul style="list-style-type: none"> <li>• Major types of lifting equipment</li> <li>• Recertification</li> </ul>	<ul style="list-style-type: none"> <li>• Means of slinging</li> <li>• Visual awareness of defects</li> <li>• Weather limitations</li> </ul>
ROV LARS	<ul style="list-style-type: none"> <li>• Cranes and 'A' frames</li> <li>• Installation</li> <li>• Use of/operations/safety</li> <li>• Inspection</li> <li>• Function of testing</li> <li>• Load certification</li> </ul>	<ul style="list-style-type: none"> <li>• Maintenance/repair</li> <li>• Lift wire inspection/maintenance/replacement</li> <li>• Umbilical winch</li> <li>• Types (lifting winch)</li> <li>• Inspection (winch and umbilical)</li> <li>• Load testing (armoured umbilicals)</li> <li>• Tether management systems</li> </ul>
Rigging and Slinging	<ul style="list-style-type: none"> <li>• Lifting equipment selection</li> <li>• Examination and testing</li> <li>• Marking lifting equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Safe working load</li> <li>• Shackles</li> <li>• Webbing slings</li> <li>• Correct use of slings and lifting equipment</li> </ul>
Hydraulic Systems	<ul style="list-style-type: none"> <li>• Safety</li> <li>• Certification</li> <li>• Description of system components – types/use and operation of:</li> <li>• Associated electrical circuitry</li> </ul>	<ul style="list-style-type: none"> <li>• Repair/maintenance</li> <li>• Use of test equipment</li> <li>• Basic fault finding techniques</li> <li>• Basic circuit diagram representation</li> </ul>
Health, Safety and Environmental Awareness	<ul style="list-style-type: none"> <li>• Safety/risk management</li> <li>• Health and safety</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental awareness</li> <li>• Relevant legislation</li> </ul>
Manual Handling	<ul style="list-style-type: none"> <li>• What is manual handling?</li> </ul>	<ul style="list-style-type: none"> <li>• Safe lifting techniques</li> </ul>



R04 - ROV Pilot Technician Grade 2 –  
IMCA R04 Competency Training Module Content

Competence	Knowledge	Ability
Safety R/R04/000/0101	<ul style="list-style-type: none"><li>• Awareness of legislation</li><li>• Awareness of company safety</li><li>• Knowledge of own role and responsibilities</li><li>• Basic understanding of regulations</li><li>• Understanding of Company Safety Management System</li><li>• Identification of different areas in the workplace and the risks associated with each</li></ul>	<ul style="list-style-type: none"><li>• Locate all relevant health, safety and quality procedures at the worksite</li><li>• Participate in an offshore safety induction</li><li>• Follow safety instructions and use correct appropriate safety equipment for all deck and worksite operations</li></ul>
Emergency Response R/R04/000/0202	<ul style="list-style-type: none"><li>• Knowledge of emergency procedures</li><li>• Knowledge of the ROV team members' role and responsibilities</li><li>• Ability to describe own role in emergency situations and that of colleagues</li></ul>	<ul style="list-style-type: none"><li>• Read and demonstrate an understanding of Company Emergency Procedure documents and where to find them</li><li>• Raise Alarm and to alert to others</li></ul>
Communication and Personnel skills R/R04/000/0303	<ul style="list-style-type: none"><li>• Knowledge and understanding of English permitting good oral and written communication</li><li>• Recognition of personal limitations and requests assistance from others when necessary without undue disruption and willing to offer assistance when needed</li></ul>	<ul style="list-style-type: none"><li>• Establish and maintain good working relationships with immediate team members</li><li>• Use of clear, concise and correct verbal communications with supervisor</li><li>• Work as part of the team and assist others</li><li>• Communicate with other team members</li></ul>
Piloting an ROV (piloting/technical) R/R04/000/404	<ul style="list-style-type: none"><li>• Describe the function of standard ROV controls and their use in navigating the ROV</li><li>• Understanding of the use of Sonar</li><li>• Awareness of changes in ranges/scales</li><li>• Understanding of use of acoustic positioning systems used by ROV's</li></ul>	<ul style="list-style-type: none"><li>• Navigating an ROV to work site in normal environmental conditions</li><li>• Familiarity with ROV controls</li><li>• Utilise navigational aids in order to direct and assist in piloting ROV</li></ul>
ROV Systems R/R04/000/505	<ul style="list-style-type: none"><li>• Testing, maintenance and operation of ROV system under supervision</li><li>• Understanding of power up/power down safety sequence</li></ul>	<ul style="list-style-type: none"><li>• Assist with the completion of pre-dive checks of an ROV</li><li>• Assist with the launch of an ROV in normal environmental conditions</li><li>• Assist with completion of post dive checks of an ROV</li><li>• Identify all the main components of the ROV system and describe their functions, e.g. winch, A-frame/crane, topside control components.</li><li>• Assemble tools needed in change out including personal protective equipment</li></ul>
Preventative maintenance R/R04/000/606	<ul style="list-style-type: none"><li>• Awareness of requirements</li><li>• Assistance of colleagues when required with planned maintenance</li></ul>	<ul style="list-style-type: none"><li>• Describe why and when planned maintenance is needed</li><li>• Assist in preparing work area</li><li>• Determine what system isolations are required at the work area</li><li>• Determine relevant tools for work to be undertaken, under supervision</li></ul>
Safe operating techniques R/R04/000/707	<ul style="list-style-type: none"><li>• Understanding of safety and environmental requirements during launch and recovery and deck operations</li></ul>	<ul style="list-style-type: none"><li>• Describe correct/safe operation of launching system</li><li>• Describe roles of ROV team members during launch and recovery operations</li><li>• Describe environmental effect of and limitations to launch and recovery operations</li></ul>
Administration R/R04/000/0909	<ul style="list-style-type: none"><li>• Understand importance of documentation and logs</li><li>• Knowledge of company QA and associated procedures</li></ul>	<ul style="list-style-type: none"><li>• Record ROV dive information onto dive logs</li><li>• Able to complete dive records - video, audio and written</li><li>• Record video information on to video tape in the required format</li><li>• Audio dub video material in real time utilising correct terminology and specified procedures</li></ul>
Project activities R/R04/000/1111	<ul style="list-style-type: none"><li>• Understanding of project equipment operation procedures</li></ul>	<ul style="list-style-type: none"><li>• Familiarisation</li><li>• Project Planning</li><li>• ROV dive planning</li></ul>

SNR04 Subnet Hydraulics, Electrical & HV Safety Module Content

Competence	Knowledge	Ability
High Voltage and High Voltage Safety for ROV Pilot Technicians SN/R04/001	<ul style="list-style-type: none"><li>• Knowledge of electrical principles</li><li>• Knowledge of electrical safety</li><li>• Knowledge of various electrical test equipment like multimeter, meggaohmeters</li><li>• Knowledge of ROV electrical systems like power supply, lighting, thrusters</li><li>• Knowledge of ROV cables</li><li>• Knowledge of electric motor thrusters</li></ul>	<ul style="list-style-type: none"><li>• Ability to identify all electrical components in a typical ROV system and describe their functions.</li><li>• Ability to safely test cables for faults and test after change out</li><li>• Ability to read electrical schematics</li><li>• Ability to perform electrical isolation using safety procedures</li><li>• Ability to test electrical components and replace them</li><li>• Ability to wire electric circuits</li></ul>
Hydraulics for Rov Pilot Technicians SN/R04/002	<ul style="list-style-type: none"><li>• Knowledge of basic hydraulic principles</li><li>• Knowledge of hydraulic systems, symbols, and drawings</li><li>• Knowledge of hydraulic parts like pumps, valves, filters, compensators, etc.</li><li>• Knowledge of hydraulic oils</li></ul>	<ul style="list-style-type: none"><li>• Ability to identify all components on a typical ROV hydraulic system and describe their function</li><li>• Ability to perform maintenance activities like replacing oil, filters, top-up, etc.</li><li>• Ability to interpret hydraulic diagrams</li><li>• Ability to identify faulty valves by testing its mechanisms, seals and/or solenoids.</li><li>• Ability to properly dispose of oils, rags, pads, granules in an environmentally acceptable manner</li><li>• Ability to reassemble valves and refit in original location</li><li>• Ability to inspect and change hydraulic pumps if necessary</li></ul>

SNR1005 - Electronics for ROV Pilot Technicians Module Content

Competence	Knowledge	Ability
Electronics for ROV Pilot Technicians SN/R04/000	<ul style="list-style-type: none"><li>• Knowledge of basic electronic principles</li><li>• Knowledge of ROV electronics systems layout</li><li>• Knowledge of use of electronic measuring instruments like multimeters, oscilloscopes, signal generators, etc.</li><li>• Knowledge of and familiarity with thruster controls, video systems, lighting systems, navigation systems, etc.</li></ul>	<ul style="list-style-type: none"><li>• Ability to identify all electronic components in a typical ROV and describe their functions</li><li>• Ability to read electronic schematics</li><li>• Ability to solder</li><li>• Ability to test electronic boards and replace them</li></ul>

TEL2001 - CFOT - Certified Fiber Optics Technician Module Content

Competence	Knowledge	Ability
CFOT - Certified Fiber Optics Technician TEL2001	<ul style="list-style-type: none"><li>• Knowledge of fibre optic principles</li><li>• Knowledge of use of fibre optic splicing equipment and OTDR</li></ul>	<ul style="list-style-type: none"><li>• Ability to test fibre optic cables for faults</li><li>• Ability to isolate the fibre optic cable from the umbilical</li><li>• Ability to prepare, splice and terminate fibre optic cables</li><li>• Fusion Splicing</li></ul>
Examination and CFOT Certification		