

SAROV MARINE CC

SOUTH AFRICAN REMOTELY OPERATED VEHICLES

4 STRAND STREET, PORT ALFRED, EASTERN CAPE, SOUTH AFRICA, 6170
TEL. +27 46 624 1632 / MOBILE +27 83 654 2878 / FAX. +27 86 518 2198
EMAIL kees@sarov.co.za WEBSITE www.sarov.co.za



PROPOSAL

ROV TRAINING HOURS, INTRODUCTION, FAULT FINDING & MAINTENANCE ON SUB ATLANTIC MOJAVE 036

In order to achieve your ROV Pilot Technician II rating, the following is required:

1. ROV Piloting 60 hour course by SAROV MARINE CC (details of course and pricing below);

2. Certification in ROV High Voltage online **theoretical** training via

<https://mtcsuk.com/mtcs-online/high-voltage/> (current pricing £396.00 GBP)

2.1 Alternatively, any online course in basic electronics offering a certificate on completion of the course

3. Certification in ROV hydraulics online **theoretical** training via

<https://mtcsuk.com/mtcs-online/hydraulics/> (current pricing £516.00 GBP)

3.1 Alternatively, any online course in basic hydraulics offering a certificate on completion of the course

4. Offshore medical certificate OGUK certified via

<http://www.airseamed.co.za/contact.html> (current pricing approx. R2 000.00 ZAR)

4.1 Alternatively, Dr van Niekerk, 5 Doneraile Street, George, South Africa, 6529 (Tel. 044- 874 1772)

5. Offshore safety and survival training OPITO approved BOSIET/FOET via

<https://www.maritimetraining.co.za/digital-bosiet-with-compressed-air-emergency-breathing-system-dbosiet-with-ca-eb-1-day/> (current pricing R19 750.00 ZAR)

NOTE: Please email pmtinfo@mweb.co.za to enquire for full course details and enrolment procedure to follow.

NOTE: ITEMS 2-5 PAYABLE BY CANDIDATE DIRECTLY TO ENTITIES IN LINKS ABOVE.

With reference to Item 1 above, ROV Piloting 60-hour course by SAROV MARINE CC, please see below training course outline. **Please note that these are guaranteed 60 hours of piloting the ROV.**

Training course dates by SAROV MARINE CC for ROV Piloting hours, is flexible and dependant on candidate enrolment. Please take note of the inclusions and exclusions for this 60-hour ROV training course in the course outline document below.

Amount excluding VAT @ 15%	=	R150 195,00	
VAT @ 15%	=	R 22 529,25	
Total including VAT	=	<u>R 172 724,25</u>	Per Item 1 above, excluding Items 2-5

To obtain your ROV Pilot Tech II Competency Certificate

Please visit <https://remotecompetencesupport.co.uk/contact-us/>, alternatively email James Macdonald james@remotecompetencesupport.co.uk for requirements and costing.

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ROV training course INCLUDES the following

•	ROV certificate on completion of course
•	Starter/graduation pack which includes the followings items:
	ROV course/assessment manual
	Flash drive containing study material and videos
	IMCA ROV Logbook
	Stationery pack
	SAROV rug sack, cap, oil-rigger and weatherproof jacket
•	Hard hats and other safety gear are provided

You are required to bring the following items with you

•	laptop	•	A4 note pad	•	Additional pens or pencils	•	Safety boots
•	1 x color ID photo for your ROV logbook						

ROV training course EXCLUDES the following

•	travel to course venue and return this can be arranged at an additional cost
•	accommodation
•	meals and laundry
•	other course requirements i.e. electronics/hydraulics courses etc.
•	offshore medicals
•	offshore safety and survival course

Training Venues

•	SAROV MARINE CC currently presents the ROV training course at the Port of Coega in Port Elizabeth.
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CORE QUALIFICATIONS / TRAINING OUTLINE

1.	Introduction Visually explain the training facility, ROV and other associated equipment positioning, location of spares, Company documents, safety documents and other basic set up procedure. Familiarise Candidates with contents on training flash drive provided as part of the training theory material.
2.	Safety procedures Carry out site induction, referring to safety areas, the use, and correct applications for PPE, again explaining safety procedures, discussing what can be expected on vessel/platform installations/operations Teaching ROV Pilot Trainees about electrical and hydraulic safety by means of LOTTO (Lock Out Tag Out)
3.	Cover all paperwork Referring to the contents on the training flash drive, review the training competence assessment manuals to be completed by each Candidate.
4.	Cover radio procedures Familiarise Candidates with correct radio procedure utilised by SAROV MARINE CC in conjunction with industry standards
5.	Familiarization ROV and associated equipment Candidates are introduced to our MOJAVE 036 ROV system, communication protocols in terms of ROV system and how the ROV tether is made up to allow communication to the SCU and from the SCU to the monitors. The functions on the hand controller is explained and Candidates are advised to familiarise themselves with being able to work the hand controller without visual reference to this hand controller in order to be able to pilot the ROV without distraction.
6.	ROV power up procedures Explain the correct and safe procedure (radio procedure) involved in powering up the ROV system and to link the associated equipment correctly and safely (DVR, cameras, monitors, USBL, software etc)
7.	Launch and Recovery procedures LAUNCH Pre-Dive checks before powering up the ROV System With safe radio procedures, power up the ROV System Continue with Pre-Dive checks per SAROV MARINE CC format Proceed with safe launching of ROV System (radio communications in process) Once the ROV System has been submerged, turn on thruster demand and check controllability by working through all directions of the thruster controls By keeping good radio communications with the personnel outside checking the ROV, hereby also keeping the area for Pre-Dive checks clear as to eliminate potentials for accidents with a live ROV system being checked on deck, unlatch ROV System and communicate to the ROV Pilot Trainee that he is free to pilot. TETHER MANAGEMENT The correct procedure for tether management is explained and carried out RECOVERY On recovery of ROV System, USBL system is utilised to as a home reference ROV is then recovered by use of the latch lock (thruster demand must be off) Post Dive checks before final recovery, wash down ROV system with fresh rainwater ROV System safely recovered Preventative Maintenance Complete required paperwork for Company record keeping

8.	<p>Piloting of ROV System</p> <p>Familiarisation and effects of controls</p> <p>With the ROV System submerged in the water, introduce the following equipment:</p> <ol style="list-style-type: none"> a. Trittech Super Seaking sonar b. USBL micronav system c. Cameras d. Introduce Hydrolek Manipulator
9.	<p>ROV Training Exercises</p> <ol style="list-style-type: none"> a. Utilisation of sonar system to find target (2 litre bottle) and mark b. Recover target using the manipulator c. Utilisation of sonar system to firstly locate the target (chain) and then carry chain inspection. This exercise is to familiarise the Candidate to undertake chain inspections offshore d. Carry out GVI and CVI covered in Item below. e. Precision exercises by means of recovering golf ball with manipulator and placing same golf ball on dedicated area, thereby honing skills for accuracy. The idea is similar to placing a CP probe.
10.	<p>Simulated Emergencies</p> <ol style="list-style-type: none"> a. Activating emergency stop on SCU. This is to test the Candidate's fault-finding capability b. During piloting exercises, turn off sonar system. This is to determine Candidate's ability to first discuss the problem encountered as a team, then to determine a workable solution to ensure safe recovery of ROV System, once ROV System is safely recovered, continue with fault finding. c. Turn of camera system to test the Candidate's ability to use the sonar system and USBL.
11.	<p>Hour building</p>