

Remote Operated Vehicle (ROV) Pilot/Technician

ROLE OVERVIEW

As the pilot of a remote operated vehicle, you are responsible for navigating, maintaining, and repairing an ROV system and its associated equipment.

You will utilize ROV systems to accomplish tasks in an underwater environment where humans, because of depth and dangerous conditions, otherwise could not operate. You may use ROV systems to monitor ocean environments, manipulate tools or equipment underwater, or perform recovery tasks as directed by clients or supervisors.

You may work for a variety of different organizations performing different tasks ranging from subsea oil and gas development projects, IRM (Inspection, Repair and Maintenance), construction, UXO surveys, cable and pipe laying, trenching, salvage, and scientific research. The tasks will differ based on the industry you operate in and your experience.

To be successful in this role, you must have absolute comfortability on board a vessel or at sea with exceptional knowledge of marine emergency duties and how to behave in uncertain environmental circumstances. You will work with a variety of different technicians and seamen in a diverse environment and will need to work collectively to develop solutions and perform operations.

STRATA LEVEL: 2 – Technician

Also Known as:

- ROV Pilot
- ROV Technician

Education and Experience:

- A diploma, certificate, or degree in Remote Operated Vehicles, electrical, electronics, hydraulic, or mechanical engineering/technology.
- Certified or have experience piloting a remote operated vehicle.
- Marine Emergency Duties (MED) certification would be considered an asset.

Associated NOC(s):

- **7384** - Other trades and related occupations



TECHNICAL



ROV Systems Operation

Operates ROV equipment using established processes to ensure outcomes are within allowable variances and maximizes safety and efficiency.

- Pilots ROV in coordination with other operators on board a vessel to execute mission briefs
- Prepares and tests ROV and related equipment prior to mobilization or demobilization to ensure all equipment functions as expected.
- Remotely operates cameras and sonar displays on ROV to calculate vehicle positioning and navigate and inspect the ocean floor.
- Calculates the range from an ROV to other transducers to adjust for variables such as water temperature, the density of water, salinity, etc. to accurately position vehicle.
- Operates intervention tools such as robotic manipulators to pick up objects and maintain moving parts on subsea manifolds.
- Performs all appropriate pre and post dives checks to ensure ROV systems function effectively prior to and post mission.
- Assists with the launch and recovery of an ROV system in normal environmental conditions.

ROV Equipment Maintenance

Performs routine, non-routine, and preventative maintenance of equipment to maintain safe and efficient operations.

- Identifies potential hazards likely to arise during maintenance activities and take appropriate precautions to maintain operations and safety while systems are under maintenance.
- Perform scheduled maintenance in accordance with operational requirements to ROV and associated equipment to prolong the longevity of ROV systems.
- Locate and follow fault-finding maintenance procedures for electronic and mechanical systems to maintain ROV control and navigational systems.
- Cleans and rinses ROV post recovery to remove salt water and other contaminants to prevent corrosion or other preventable damages to systems.



ROV Administration

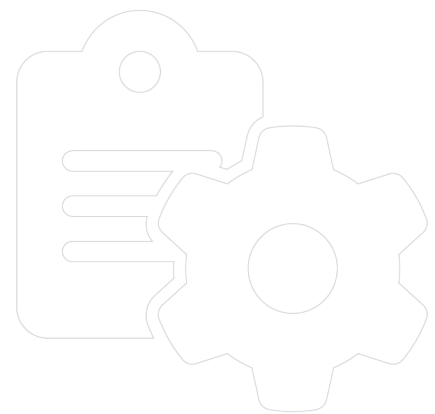
Conducts administrative tasks such as planning, collecting, and maintaining information associated with ROV systems operations to effectively organize and maintain scientific operations.

- Documents video logs and information collected during mission to document, store, and communicate data to clients and internal team members.
- Performs audio and video dubbing as required to ensure recordings are transmissible to communicate information with clients and internal team members.
- Adheres to companies' quality assurance and control procedures to ensure all recorded information complies with internal policies and procedures.
- Coordinates the collection of dive records (audio, visual, and written) to formulate a harmonized report.
- Work with other pilots, technicians, and specialists to develop ROV dive plans to ensure operations are performed efficiently.

Specialized Equipment Construction

Works with other technical staff to construct specialized technical equipment to improve technical capabilities to a machine or system.

- Identify and assist with changing major hydraulic, electronic, and electric components on an ROV system to maintain functionality.
- Assemble tools and other specialized equipment required during component changeouts.
- Work with engineers and specialists to perform modifications to an ROV system to upgrade or improve ROV capabilities.



PERSONAL AND PROFESSIONAL



Communication

Positively directs outcomes by delivering communication that results in a better understanding of goals and objectives and that capture interest, and gain support for immediate action.

- Communicates with other team members to share information and resources to exploit opportunities and efficiencies.
- Actively listens to team members to address concerns and integrate ideas, values, and new information where appropriate.
- Verbally conveys complex technical information accurately, clearly, and effectively to communicate technical operations.
- Asks questions when assigned unfamiliar tasks to ensure understanding and accuracy.
- Actively listens to team members and managers to understand different perspectives and incorporate feedback into workplace tasks.

Collaboration

Engages in professional collaborative efforts with other members of the team, including sharing information and expertise, utilizing input from others, and recognizing others' contributions to work towards a common goal.

- Listens to constructive feedback and incorporates suggestions to achieve a collective objective.
- Ensures tasks are completed in the most efficient manner to optimize workplace output.
- Works to establish good working relationships with junior and senior personnel to work as part of a team and assist others.



LEGAL, REGULATORY, AND POLICY



Health and Safety Procedure

Abides by and advocates specific workplace safe operating procedures and occupational health and safety requirements within a defined jurisdiction to ensure the health and safety of others.

- Adheres to offshore safety standards to maintain a safe working environment for self and others.
- Conducts all operations within the companies established safety management system.
- Uses appropriate Personal and Protective Equipment (PPE) in all circumstances.
- Documents any and all incident/near-miss reports to document incidents and adhere to safe operating procedures while working.

Marine Emergency Duties

Assesses and responds to onboard emergency situations to assist in their own or crew's survival and rescue.

- Administer CPR or first aid to provide help to a sick or injured person until they receive more complete medical treatment.
- Operates survival craft equipment in the event of an emergency to ensure the safety of self and crew.
- Participates in regular safety exercises, drills, or scenarios to maximize safety in potentially dangerous scenarios.
- Identify muster signals in the event of an emergency to take appropriate measures to ensure the safety of self and crew.

