



## SUSTAINABLE BLUE ECONOMY PROFESSIONAL

# Manufacturing Assembler

As a Manufacturing Assembler, you assemble, test, and calibrate marine equipment like sensors and sonar devices. Your work ensures high-quality systems ready for deployment, supporting global exploration, research, and conservation.



### JOB DUTIES

- Assemble components of oceanographic equipment;
- Interpret blueprints and technical diagrams;
- Conduct quality control tests on completed assemblies, and perform calibrations;
- Perform routine maintenance on tools and equipment;
- Collaborate with engineers and production teams to resolve technical issues, troubleshoot assembly challenges, and improve assembly processes;
- Document assembly steps, test results, and quality assurance checks; and
- Ensure safety standards and protocol compliance.



### EDUCATION

A career as a Manufacturing Assembler in the Ocean Technology sector requires a foundation in mechanical assembly, and electronics. An interest in high-tech equipment and marine technology is essential.

- Technical Diploma or Certification:
  - A diploma in Manufacturing Technology, Electronics, Mechanical Engineering Technology, or a similar field; and
  - Courses in precision manufacturing, electronics, and quality control.
- Additional Training:
  - Specialized certifications in soldering, electrical assembly, or quality assurance (e.g., IPC certifications for electronics assembly); and
  - Familiarity with ISO quality standards and practices is also valuable.



### TECHNICAL SKILLS

- Basic Soldering and Electrical Wiring Skills;
- Proficiency in Assembly and Calibration Techniques for electronic and mechanical components;
- Familiarity with Diagnostic and Testing Equipment for quality control;
- Knowledge of Safety Protocols and Quality Assurance Standards;
- Ability to Interpret Technical Diagrams;
- Experience with Precision Tools and Measurement Instruments;
- Understanding of Material Properties and Compatibility in marine environments;
- Ability to Operate and Maintain CNC Machines; and
- Proficiency in Using Inventory Management Software.



### PERSONAL & PROFESSIONAL SKILLS

- Strong Attention to Detail
- Problem-Solving Abilities
- Manual Dexterity and Precision
- Communication Skills
- Time Management
- Team Collaboration
- Patience and Persistence



### WHERE TO WORK

Manufacturing Assemblers in ocean technology work with organizations producing marine and oceanographic equipment, including:

**Oceanographic Equipment Manufacturers | Marine Technology Companies | Research and Development Institutions | Government Marine and Environmental Agencies | Environmental Monitoring and Conservation Organizations | University Research Facilities with Ocean Technology Divisions**



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