

Marine Mechanic Job Description

Duties and Responsibilities:

- Perform inspections and diagnose [engine](#) problems with the aid of diagnostic tools
- Repair or replace defective parts like pistons, valves, and gaskets
- Perform routine maintenance on engines by oil changes and replacing filters
- Repair marine engines by test-running after repairs to ensure that they are running properly
- Install new marine engines, generators, and other equipment
- Do all necessary electrical repairs or replacement of wiring and electrical components
- Repair hydraulic and fuel systems
- Run engine tune-ups to achieve optimal performance.
- Clean and adjust carburetors and fuel injectors
- Overhaul engines, when necessary, to return them to a functional state. Advise clients on any improvisation or upgrading.
- Maintain records of all repairs and servicing
- Inventory all parts and tools on hand
- Order parts and supplies as needed to complete jobs
- Relate to clients regarding technical problems and how to conduct repairs
- Ensure that the operation of the workshop adheres to environmental and safety regulations
- Conduct regular inspections on marine vessels
- Troubleshoot, test and repair onboard electrical systems
- Properly keep service and repair records
- Ensure manufacturer guidelines are followed in conducting repair and maintenance
- Test and repair steering and propulsion systems
- Keep workshop clean and organized
- Keep up-to-date with the changing technology and techniques related to the marine field

- Assist other mechanics or technicians in resolving problems.

Marine Mechanic Requirements – Skills, Knowledge, and Abilities

- **Technical Skills:** The mechanic needs to be proficient in diagnosis and repair of marine engines and systems
- **Mechanical Aptitude:** Understanding of mechanical principles of the operation of the engines
- **Problem-Solving:** Troubleshooting and resolution of complicated mechanical problems related to the vessel or equipment
- **Attention to Detail:** Precision in the performance of repairs and maintenance tasks
- **Customer Service:** Effective communication skills that will allow communication with the clients
- **Regulatory Knowledge:** Knowledge of safety and environmental regulations related to the marine repairs
- **Physical Stamina:** This is the ability to work outdoors in all weather conditions and to perform physically demanding tasks.