

# Port of London Authority

## Job Description

<b>1. JOB DETAILS</b>	<b>DEPARTMENT: Marine Engineering</b>
Job Title: <b>Marine Engineering Technician (Mechanical)</b>	Reports to: <b>Workshop Supervisor</b>
Grade <b>7</b>	Date: <b>March 2017</b>

<b>2. JOB PURPOSE</b>
To undertake highly-skilled diagnosis, maintenance and defect rectification for the PLA's fleet of vessels and other plant, to ensure maximum availability within operational and financial constraints and when required to perform the duties of ship's engineer officer in the PLA Salvage Vessel London Titan.

<b>3. JOB DIMENSIONS</b>
Financial Department
1. Routine Maintenance £ 950K (Contributory)
2. Delegated Authority to spend up to £2,000 in terms of revenue
3. Operation of complex plant and equipment
Group
1. PLA turnover £50M
2. Marine Engineering Department £3.9M
Staff Responsibilities
1. Direct - Up to 3 (as project team leader)
2. Contractors – Supervision and technical management, as required

<b>4. ORGANISATION CHART ATTACHED</b>
---------------------------------------

<b>5. KNOWLEDGE, SKILLS AND EXPERIENCE</b>
<ul style="list-style-type: none"><li>• A Marine/Industrial Mechanical Engineering Technician, with an HNC in a relevant engineering discipline or equivalent (to the satisfaction of the PLA), demonstrating both theoretical and practical experience in fault diagnosis, maintenance and operation of the wide range of mechanical, electrical and control systems across the fleet of marine plant</li><li>• Good Toolroom/Fitting skills &amp; experience</li><li>• Having served a recognised apprenticeship</li><li>• Highly motivated and able to work separately or as part of a team.</li><li>• At least 2 Years post-qualification experience of provision of engineering services, ideally within the marine environment, at the fully-skilled technician level.</li><li>• Pass the PLA training and examination for Salvage Vessel Engineer Officer.</li><li>• Possess and maintain a clean UK Full Driving Licence (Manual).</li><li>• Small boat handling skills (training will be given)</li><li>• Ability to operate Forklift Trucks etc. (training will be given)</li><li>• Ability to climb ladders and to work in small/crampted spaces, e.g. small boat engine rooms and tank spaces etc.</li><li>• Knowledge of diesel engine electronic control systems would be an advantage</li></ul>

## Port of London Authority

- Basic knowledge of small vessel electrical systems at 12V & 24V dc (including starting & charging and general boat services etc.)
- Ability to safely and effectively use welding/cutting equipment (Gas, Electric, MIG & TIG) would be an advantage

### 6. **KEY ACCOUNTABILITIES**

- Using highly-developed diagnostic and analytical skills, identify and rectify defects on a wide range of mechanical, electrical and controls systems and perform the planned maintenance for the PLA's fleet of vessels, without supervision, to ensure maximum availability of duty vessels, with liability for call-in on a 24-hourly basis.
- Liability for overtime/out of hours working (given reasonable notice)
- Where necessary, manufacture/repair components from raw material and demonstrate good toolroom work practices and techniques.
- While working on the PLA salvage ship London Titan, reporting directly to the ship's master, perform the duties of Marine Engineer Officer for operation and maintenance of the Salvage Vessel's propulsion, electrical, pumping and hydraulic machinery, equipment and systems, to ensure maximum availability of these key units to the salvage & mooring service
- From acquired knowledge and established engineering principles, across the wide spectrum of structural, mechanical, electrical and control disciplines, identify and propose innovative solutions to emerging technical challenges.
- Provide information for the specifications for major refits for PLA vessels, to ensure that the Superintendent is informed of current and emergent technical requirements, prior to refit. Supervise and undertake engineering refit tasks without supervision.
- Undertake the routine maintenance and overhaul of marine engines/gearboxes and workshop, quayside and other marine and shore-based plant, to achieve maximum levels of equipment effectiveness for operational managers and in conformity with HSE /MCA regulations and PLA codes of safe working practice.
- Direct, supervise and issue work instructions to other PLA staff and specialist contractors, to ensure that maintenance tasks and other work is completed correctly and in a timely fashion.
- Perform vehicle, crane, shore-plant and small boat driving functions, to support the operational needs of the PLA.

### 7. **COMMUNICATIONS AND WORKING RELATIONSHIPS**

Internally – Extensive with vessel crews and operational departments' staffs.  
Externally – Extensive with engineering contractors and suppliers.

### 8. **DECISION MAKING AUTHORITY**

Authority for identifying and completing appropriate risk assessments and identifying technical solutions and work methods, within diverse but established procedures and standards.  
Authority for closing down a duty PLA vessel, should conditions be liable to affect personnel or vessel safety.  
Authority for supervision and direction of skilled workforce and contractors.

### 9. **REPORT PREPARATION**

Technical and maintenance reports on matters within the broad scope of duties.

# Port of London Authority

## 10 HEALTH & SAFETY

- All staff are responsible for complying with rules and regulations governing employment by the PLA, and are obliged to assist the PLA to comply with all statutory and regulatory provisions, including a duty of care for their own health and that of others.
- Apply the PLA's Golden Rules for safety.
- You will be tested for alcohol and drugs in all cases where you have had any involvement in a workplace accident or in any incident that has caused or could have caused a danger to health or safety. Testing will also be carried out where management has grounds to believe or suspect that you may be under the influence of alcohol or drugs. This is known as 'with cause' drug or alcohol testing
- Random alcohol and drug testing will be carried out on all members of staff.

## 11. AUTHORISATION DETAILS

Prepared By: \_\_\_\_\_

Date: \_\_\_\_\_

Authorised By: \_\_\_\_\_

Date: \_\_\_\_\_

## 12. JOBHOLDER'S RECEIPT

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signed: \_\_\_\_\_

Date: \_\_\_\_\_