

## Mechanical Technician Multi-Skilled

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<b>Department:</b>	Infrastructure, Housing and Environment	
<b>Section:</b>	Operations and Transport	
<b>Reports to:</b>	Mechanical Technician (Multi-skilled) Chargehand and Operations Manager Mechanical Engineering.	
<b>JE Ref:</b>	IHE1099	
<b>Grade:</b>	TECH08	JE Date: 3/10/2021

### Job purpose

Carry out a range of duties, in relation to a cross-section of plant and machinery located within IHE's assets, including testing, inspecting, condition surveys; routine maintenance, and the installation of components/equipment, from the perspective of mechanical engineering.

### Job specific outcomes

The responsibilities of the role require the multiskilled role-holder to undertake the following activities:

- Inspect, diagnose, and repair faults on technical equipment and assets, including the installation and commissioning of new equipment.
  - Carry out and develop planned preventative maintenance, servicing and overhauls of equipment and assets, including performing inspection and testing process systems and equipment, in accordance with the statutory regulations appropriate to the particular item of equipment being worked on. The nature of this equipment varies. It includes, for example but is not limited to, hydraulic systems, air compressors, pumps, centrifuges, steam systems/plant, water and wastewater treatment valves, and digester equipment dealing with raw sewage.
  - The role-holder has what is termed a core skill, but also a relevant secondary skill allowing them to broaden the range of tasks and activities to which they will be deployed.
  - Take an active role in the creation, development and implementation of health and safety written risk assessment, including the production of written dynamic risk assessments when on site and dealing with situations not conforming to a standard risk assessment. Similarly, the role-holder will assist asset owners, chargehands and managers with the production of method statements, when requested.
  - Assist in the design, manufacture, or modification of simple components, which are not subject to statutory design criteria, nor affecting the safe use or operation of any equipment. This will therefore involve the role-holder using machining skills to, for example, fashion drive mechanisms of particular dimensions, shape, or other requirement, from raw materials, such as metal bars. The metal used can vary, and may be, for example, bronze, brass, or stainless steel and to fabricate/weld/construct components from sheet steel/stainless steel/aluminium/alloys.
  - Carrying out all required preparation and cleaning of equipment and assets both prior to, and following, maintenance or repair. The role-holder is required to use appropriate tools and specialist machinery in a safe manner to carry out the necessary tasks efficiently.
  - Periodically, the role-holder will organise jobs distributed by line managers and chargehands from other sections, particularly where it is critical for a job to be undertaken or in emergency situations when time is very limited.
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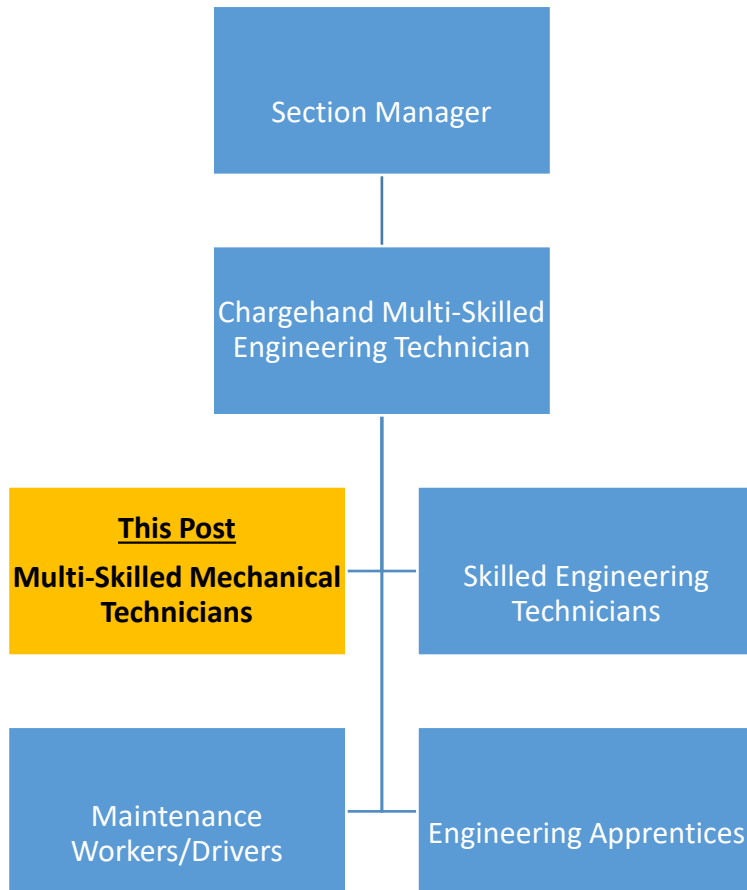
- The role-holder is required to report back on the work that they have carried out, the materials used that time taken, any further work which may be required, and the condition of the asset in question, by effectively using the appropriate work reporting system.

## Organisational structure

### One Government Departments



Organisation chart



## Person Specification

### Specific to the role

ATTRIBUTES	ESSENTIAL	DESIRABLE
<p><b>Qualifications</b></p>	<ul style="list-style-type: none"> <li>• The role-holder is required to have a Level 3 City and Guilds qualification, or an acceptable equivalent. Beyond this, with the specific skill dictated by organisational need, the role-holder must have a further qualification, other than their core skill, requiring 10 days or 80 hours additional training, delivered by a recognised training provider, such as:</li> <li>• Electrical Testing and Inspection qualifications (these are two distinct entities: one relating to testing and the other to inspection).</li> <li>• Process Plant fitting:- Spirax Sarco (UK) Steam Plant Maintenance course (C&amp;G qualification).</li> <li>• National Fluid Power Centre (UK) course in Hydraulic systems – Hydraulic awareness, Stage 1 hydraulics, Stage 2 Industrial Hydraulics (Certificates of Competence).</li> <li>• Qualified Coded Welder :- TWI (UK) 10 – 15-day course depending on experience and coding requirements to : BS.4870 EN288 prep &amp; EN287 weld, Material 15M03, Thickness 3 to 16.5 mm max Pipe OD 24 to 280mm max, Fillet range 6 to 12.5mm max.</li> <li>• Similarly, they would be required to have completed the relevant City and Guilds Level 2 training course relating to working in medium risk confined spaces, as applying to the water industry.</li> </ul>	
<p><b>Knowledge</b></p>	<ul style="list-style-type: none"> <li>• Fully apply judgement in relation to the inspection, certifying and signing off of work, to determine that it complies with all requirements.</li> </ul>	

	<ul style="list-style-type: none"> <li>• Be able to provide appropriate guidance to less qualified personnel, including apprentices.</li> <li>• Where required, be able to fully understand and apply instructions and directions provided by more senior colleagues.</li> <li>• Be able to work collaboratively with others and as a team member.</li> <li>• Adhere to all safety and governance procedures.</li> </ul>	
<b>Technical / Work-based Skills</b>	<ul style="list-style-type: none"> <li>• The role-holder must also have a full driving licence allowing them to drive a car.</li> </ul>	
<b>General Skills/Attributes</b>	<ul style="list-style-type: none"> <li>• The predominant internal contact will involve the role-holder receiving both written and verbal work instructions from either a chargehand or the role-holder's line manager. This will occur on a daily basis and will generally be confirmed in the form of a computer-generated worksheet. However, the role-holder will also engage in face-to-face discussions, telephone communications, and in providing written reports. It is important for the role-holder to ensure that they clearly communicate the status of the equipment or asset that they are working on, principally, confirmation that it is back online and safe to use. Similarly, the role-holder will be expected to fully report all work carried out, materials used, time taken, and any additional work that may be necessary.</li> </ul>	
<b>Experience</b>	<ul style="list-style-type: none"> <li>• An individual recruited to the role externally would be expected to have reasonable knowledge of the field of work, gained from on-the-job training. Where recruiting internally, the recruit would have completed an apprenticeship, or hold the correct certification for the role if moving from another department.</li> </ul>	

	<ul style="list-style-type: none"><li>• An individual recruited with the requisite qualifications and experience should be up to speed to perform in the role at an acceptable standard after a period of between 6 to 12 months.</li><li>• The role-holder must also complete relevant specialist short training courses which will relate to individual items of equipment or assets. These are typically of one week's duration and are provided by either equipment manufacturers or specialist training providers.</li></ul>	
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