T-LEVELS | Institute for Apprenticeships & Technical Education

T Level Technical Qualification in Maintenance, Installation and Repair for Engineering and Manufacturing

Employer-Set Project (8730-033)

Task 2
Autumn 2023

City & Guilds | eal

Task 2 – Report

Following the completion of the research into the gas turbine and the maintenance requirements, the client has requested a report which outlines the proposed maintenance schedule with instructions for the ongoing maintenance of the turbine.

Part A

You have been asked to draft a report outlining the maintenance steps to be followed. This must include:

- details of the maintenance tasks which will need to be carried out as part of the maintenance and the frequency of these
- removal and replacement requirements
- inclusion of diagrams to aid with the maintenance of the gas turbine
- the equipment and resources needed to carry out the activities
- risk assessments and health and safety considerations for carrying out the maintenance
- how your schedule meets the requirements of the brief
- technical and commercial justification for the maintenance schedule
- how the maintenance schedule will enable preventative maintenance to be performed.

The written report will typically be 2000 words.

Part B

Along with the written report, you must also include an annotated assembly drawing of the gas turbine detailing the components to be maintained. This must detail:

- locations of parts
- electrical and mechanical connections within the gas turbine
- system layout.

The drawing(s) will typically be **one** side of A3.

Timing of assessment

- You will have **four hours** to complete your report and annotated assembly drawing.

Conditions of assessment

- Your report and drawing must be completed working alone under supervised conditions.
- You must not share or discuss your work with other candidates.
- You will have access to a copy of your response to the previous task (for review purposes only).
- You will **not** have access to the Internet for the completion of this task.
- Your drawing(s) can be completed manually or by using CAD software.

- Assessment evidence must be handed in at the end of each session for secure storage which cannot be accessed.

What you must submit on completion of this task

- Part A - **Written report** (typically 2000 words) – hard copy or file saved securely (e.g., in a secure online location or on memory stick to be handed in).
- Part B - An **assembly drawing** (typically one side of A3).

Additional evidence of your performance that will be captured for marking

- N/A

Marks available

- 24

Get in touch

City & Guilds Technicals Quality Team

We are here to answer any queries you may have regarding your T Level Technical Qualification delivery.

Should you require assistance, please contact us using the details below:

T: 0300 303 53 52 (Monday - Friday | 08:30 - 17:00 GMT)

E: technicals.quality@cityandguilds.com

W: cityandguilds.com/tlevels

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