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
Summer 2023

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Task 2 – Report

Following the completion of the investigation into different possible causes and potential modifications, A2B Water has reviewed the suggestions made. To progress, you now need to select which parts and components, identified from your research, will be used as part of the system modification.

You have been asked to draft a report, detailing appropriate parts and components to be selected and used, along with installation diagram(s) of your preferred modification on site. The report should also include a proposed schedule for maintenance going forward.

The report should clearly cover the following points:

- how your preferred modification meets the brief requirements including any benefits and limitations of the modified system
- technical and commercial justification for selected component
- requirements for the implementation of the modified system including:
    - the access to the site and modifying the system safely without inconvenience to A2B Water
    - any isolation and drainage procedures required
    - risk assessments and health & safety regulations.
- the on-going maintenance requirements of the modified system.

Along with the written report you must include a labelled schematic diagram showing:

- piping and instrumentation
- electrical and mechanical connections.

The written report will typically be 2000 words.
The diagram(s) will typically be **one** side of A3.

Timing of assessment

- You will have **four hours** to complete your report and installation diagram(s).

Conditions of assessment

- Your report and diagram(s) should 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 diagram(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

- 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).
- Diagram(s) (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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