T-LEVELS | Institute for Apprenticeships & Technical Education

T Level Technical Qualification in Building Services Engineering for Construction (8710-30)

8710-033 Core: Employer-Set Project

Task 2.1 Collaborative Problem-solving

Autumn 2023

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Task 2.1 – Collaborative Problem-solving

During the planning of the project, which is about to be undertaken by Historical Property Solutions Ltd on the town hall, you have been asked to evaluate both wired and wireless solutions for the heating control systems. This should include the factors below:

- Routing of cables
- Wireless coverage
- Cost of equipment
- Maintenance requirements
- Removal of decorative wood panelling
- Labour costs
- Installation requirements
- Power supply options

In small groups, you need to discuss these **two** options (wired and wireless) and the potential advantages and disadvantages of **each** solution.

You should take personal notes of the discussion points and arguments raised and make sure you consider both options in relation to the project and the original specification.

Following your discussion, you will need to draft an email to your manager at Historical Property Solutions Ltd, detailing your opinion and recommendation as to which connection method should be selected, based on the discussions and your personal notes.

Your email should be approximately 300 words long, and include:

- Your recommendation as to which solution to select, justifying the reason(s) why.
- Any potential risks there may be with the option you have selected.

Timing of assessment

- You will have **30 minutes** to discuss the options with your group.
- You will have **one hour** to complete your draft recommendation email on your own.

Conditions of assessment

- Your discussion will be completed working in a small group under supervised conditions.
- Your email will be drafted working alone under supervised conditions. You will have access to the notes you made during the group discussion.

What you must submit on completion of this collaborative problem-solving task

- Your draft notes from the group discussion
- Draft email (approximately 300 words)

Submitted as a hard copy or file saved securely as directed by your tutor/supervisor. You must ensure your work is saved as outlined in the ‘Presentation of work’ section of the Candidate Guidance document.

Additional evidence of your performance that will be captured for marking

- Observation record of your contribution to the discussion
- Video recording of the discussion

Maths, English and digital skills

- N/A

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:

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