

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

**Employer-Set Project
(8730-033)**

**Task 1
Summer 2024**

Task 1 – Research

You have been asked to help respond to the project that Up – Down Escalator Services has allocated. You need to research different options of handrails and planned maintenance service in line with the specifications provided by the client.

With reference to the project brief, you are to conduct research to determine:

- minimum of 2 different options of handrail
- planned maintenance schedule
- costs of equipment, parts and installation
- any equipment and tools, materials or resources needed to carry out the maintenance and installation and their cost
- tolerances, set points, operating parameters and calibration requirements once installation has been completed
- health and safety considerations when working with an escalator
- laws and regulations that apply to the installation and maintenance of escalators on site
- risk assessments to be adhered to whilst installing equipment.

Record notes on the findings of your research. Your notes may include:

- sourced pictures, engineering drawings, schematics, images, specifications, and CAD diagrams and sketches.
- specifications, extracts from sources used e.g. examples of maintenance schedules.

The research notes will typically be 1500 words. You must outline how you planned and approached your research within your notes. You must include a list of your references/sources alongside your research notes. References/sources are not included in the 1500 word count.

Timing of assessment

- You will have **three hours** to carry out the research and complete the technical brief.

Conditions of assessment

- Your research must be completed working alone under supervised conditions.
- You must not share or discuss your work with other candidates.
- You will have access to the Internet to conduct your research.
- 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

- **Research notes** (typically 1500 words) hard copy or file saved securely (e.g. in a secure online location or on memory stick to be handed in).
- List of references/sources.

Additional evidence of your performance that will be captured for marking

- N/A

Marks available

- 15

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

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