## Task 1 – Planning the Installation

The purpose of this task is for you to demonstrate you can correctly plan the installation, produce a detailed material list, complete a detailed method statement, assess the risks involved in the installation activity and produce an accurate installation diagram showing the pipework layout, pipe clips and control components.

You will be provided with the scenario brief and given time to plan the installation of the pipework to the existing boiler, magnetic filter, the S Plan Plus heating system controls and LST radiator circuit in the children's nursery.

**a) Plan the installation of pipework to existing boiler, magnetic filter, S Plan Plus heating system and LST radiator circuit in the children's nursery, following the client brief.**

You should produce the following:

- Materials list
- Method statement to include planning your sequence of work and associated risks (to include justifications)
- Risk assessment
- Installation diagram with pipework layout, pipe clips and associated components

Templates for the method statement, materials list and risk assessment have been provided.

The installation diagram should be applicable to the location you are being assessed in and the diagram completed to a commercially acceptable standard. The diagram should include all fixed services and the proposed installation layout. (Task 1 - Drawing Grid can be used if required).

The installation diagram should be used by you to carry out the installation and will also be used by your tutor/assessor for checking the dimensional tolerances of the installed system and pipework.

**b) Measure and mark out proposed working area.**

You will be provided with a specific working area that has been set up according to Figure 1.

You must measure and mark out your work area as detailed in your diagram.

You must complete this activity prior to carrying out the installation.

If you provide plans that are not fit for purpose it is expected that your tutor/assessor will intervene and provide necessary feedback and corrections to the plans prior to you carrying out the installation. However, this will be commented on in the marking documentation and reflected in marks awarded.

**Conditions of assessment:**

- The time allocated for this task is 5 hours
- You must carry out the task on your own, under controlled conditions

**What must be produced for marking:**

- Risk assessment
- Method statement to include planning your sequence of work and associated risks (to include justifications)
- Installation diagram with pipework layout, pipe clips and associated components
- Materials list

**Additional evidence of your performance that must be captured for marking:**

Practical Observation Form your detailing tutor/assessor's observations on:

- accuracy of measurements and marking out (of space allocation/ work area checked against installation drawing)
- marking out in comparison with the proposed plan and completed drawing accuracy of recording of key dimensions

- Photographs taken by your tutor/assessor at various stages of the task.

## Get in touch

The City & Guilds Quality team are here to answer any queries you may have regarding your T Level Technical Qualification delivery.

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