Task 2 – Installation, Commission and Decommission

You will have access to your drawing and plans from Task 1.

Your tutor/assessor will ensure that systems are fully decommissioned, and walls prepared, prior to you beginning installation.

a) Install the pipework to the existing boiler, magnetic filter, S Plan Plus heating system and the LST radiator circuit in accordance with your drawing and as agreed by your tutor/assessor.

All central heating flow and return pipework to the radiator should be 100 mm centre to centre unless otherwise stated or agreed with your tutor/assessor.

All pipework is to be clipped directly to the wall surface with the pipe brackets at a maximum 600 mm spacing.

All pipe bends must be carried out with the correct size pipe bending tool.

Marking out and final measuring of installed components and pipework is to be within +/- 2 mm.

All pipework to be installed level and plumb.

No burns or excessive marking to walls/property.

Finished product should be aesthetically pleasing.

Good housekeeping to be maintained throughout assessment

b) Wire the 2 port valves into the wiring centre, following the safe isolation process.

You must wire the 2 port valves into the existing wiring centre using a wiring diagram supplied by your tutor/assessor.

The safe isolation procedure should be followed and directly observed by your tutor/assessor.

All power, interconnecting and control wiring must be in accordance with manufacturer's requirements and meet current UK regulations.

c) Commission the system (pipework only) and handover to customer

Once the installation has been completed, you must commission the system and handover to the customer.

The system will then be commissioned as per the commissioning document provided, with all the data recorded in full.

Your tutor/assessor must observe you carrying out the commissioning checks detailed in the commissioning document.

You must record all data in full on the commissioning document provided.

Following commissioning and testing you will handover to the customer. The handover should include:

- Demonstration of system operation and controls

Your tutor/assessor will act as the customer during the handover and will capture notes on your performance.

d) Decommission the system

Once your tutor/assessor has checked and verified the system and handover is complete, you must decommission the system.

Decommissioning procedure:

- isolation of the fuel/electricity supply to the system as appropriate
- isolate water supply
- apply warning notices and signs
- drain system to a suitable location
- remove required pipework, radiator and controls
- repair and paint wall surfaces as required

Conditions of assessment:

- The time allocated for this task is 12 hours
- You must carry out the task on your own, under controlled conditions

What must be produced for marking:

- Commissioning checklist

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

Tutor/assessor observations of:

- Installation of system and components
- Safe isolation
- Commissioning
- Handover to customer
- Decommissioning

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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