Task 2 - Installation, commission and decommission

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

Systems should be fully decommissioned, and walls prepared prior to you beginning installation.

a. Install the gas pipework from the primary meter to the combination boiler in accordance with your drawing and as agreed by your tutor/assessor.

Installation to be completed in copper and adequately supported.

All copper pipework bends to be fabricated by machine and joints to be made using new capillary solder fittings.

All pipework is to be surface mounted and installed to a commercially acceptable standard, as per the latest British Standards and Gas Safety Installation and Use Regulations.

Prior to installation the meter should be removed according to current industry procedures.

b. Connect the boiler to existing hot/cold water supply and the central heating flow and return.

Installation to be completed in copper, adequately supported, surface mounted and installed to a commercially acceptable standard.

All copper pipework bends to be fabricated by machine and joints to be made using new capillary solder fittings.

c. Connect the electrical supply to the combination boiler from a suitably supplied fused spur connection following the safe isolation procedure.

The safe isolation of the electrical supply should be followed and directly observed.

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

The room thermostat must be a wireless model.

d. Commission the system and handover to customer.

Once the installation has been completed, you must commission and handover to 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 hand over to the customer. Your tutor/assessor will act as the customer during the handover and will provide feedback on your performance.

The handover should include:

- Demonstration of the system, eg. how to top-up the boiler, set time and temperature controls for both heating and hot water circuits
- Combination boiler service requirements, eg. frequency.

e. Decommission the system.

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

Decommissioning of the system must include:

- Isolation of the fuel, water and electricity supply to the system as appropriate
- Use of warning notices and signs
- Drain down of systems to a suitable location
- Capping of pipework sections as required
- Recycling of materials, making good to building fabric
- Returning work area to its as-found condition.

Conditions of assessment:

- The time allocated for this task is 14 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:
    - Use of tools
    - Installation of components
    - Measurements of components are to be within a tolerance of +/- 2 mm
    - 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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