Task 1 - Planning the installation

You should be provided with the scenario brief and given time to plan the installation of the combination boiler. You should be provided with manufacturer's instructions and normative documents to ensure dimensions meet industry requirements.

a. Plan the installation of the combination boiler and associated pipework following the client brief.

It is expected that you will produce the following:

- materials list
- method statement planning your works to include justifications
- risk assessment
- installation diagram, annotated with ventilation requirements, purge volume requirement and pipework sizing calculations

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

Your diagram should be applicable to the location you are being assessed in and completed to a commercially acceptable standard.

The diagram should include all fixed services and proposed installation layout.

The installation diagram should be annotated with ventilation requirements, purge volume requirements and pipework sizing calculations. Calculations should be carried out with manufacturer's instructions or normative documents.

The installation diagram will 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 the work area as detailed in your installation diagram.

You should 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 should be commented on in the marking documentation and reflected in the marks awarded.

Conditions of assessment:

- The time allocated for this task is 7 hours.
- You **must** carry out the task on your own, under controlled conditions.

What must be produced for marking:

- Risk assessment
- Method statement with justifications
- Materials list
- Installation diagram with ventilation requirements, purge volume requirements and pipework sizing calculations

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

- Tutor/assessor observation of measurements and marking out of space allocation/work area checked against installation diagram
- 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.

Should you require assistance, please contact us using the details below:

Monday - Friday | 08:30 - 17:00 GMT

T: 0300 303 53 52

E: **technicals.quality@cityandguilds.com**

W: **http://www.cityandguilds.com/tlevels**

Web chat available **here**.

The T Level is a qualification approved and managed by the Institute for Apprenticeships and Technical Education.

Copyright in this document belongs to, and is used under licence from, the Institute for Apprenticeships and Technical Education, © 2023. 'T-LEVELS' is a registered trademark of the Department for Education. 'T Level' is a registered trademark of the Institute for Apprenticeships and Technical Education. 'Institute for Apprenticeships & Technical Education' and logo are registered trademarks of the Institute for Apprenticeships and Technical Education.

We make every effort to ensure that the information contained in this publication is true and correct at the time of going to press. However, City & Guilds' products and services are subject to continuous development and improvement, and the right is reserved to change products and services from time to time. City & Guilds cannot accept responsibility for any loss or damage arising from the use of information in this publication.

The City & Guilds of London Institute. All rights reserved. City & Guilds is a trademark of the City & Guilds of London Institute, a charity established to promote education and training registered in England & Wales (312832) and Scotland (SC039576). City and Guilds Group Giltspur House, 5–6 Giltspur Street London EC1A 9DE