13: Maintenance principles

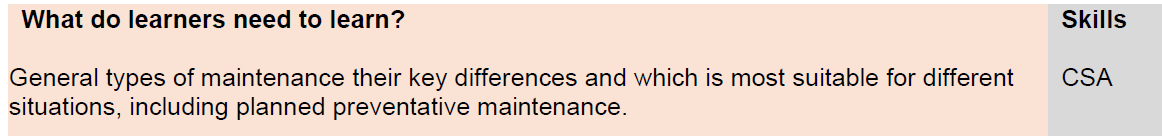
# Sample scheme of work

This sample scheme of work covers both classroom- and workshop-based learning for **Maintenance principles**. It is based on 3 hours per session for 4 sessions. It is an example only of a possible scheme of work and is based on theory and practical within an FE centre but can be amended to suit all learning facilities with the necessary adjustments to meet individual learners’ needs.

The technical qualification has been developed to include competency frameworks for T Levels, which demonstrate an array of competencies across maths, English and digital skills, as well as the core skills learners will need to use when they progress onwards from completing their T Level.

The Criteria column in the scheme of work identifies opportunities where these core skills can be developed and embedded into teaching and learning for each criterion. It is not expected that all criteria will develop core skills, but where these skills exist in the core content it has been referenced to support FE centres.

For more information on how the core skills can be evidenced, please refer to the Technical Qualification Specification (example below).

13.1 **Types of maintenance**

You can use the sample scheme of work as it is, adjust it or extract content to create a scheme of work to suit your delivery needs. It can also be adjusted by adding theory and practical workshops to support learners who have/need additional learning time.

**All classroom learning should be supplemented, supported and reinforced with relevant practical activities in the workshop environment.**

13: Maintenance principles

# Sample scheme of work

**Course/qualification:** T-Level Technical Qualification in Building Services Engineering for Construction (Level 3)

**Tutor’s name:**

**Number of sessions**:4 **Delivery hours**: 12 **Venue**: **Group**:

|  |
| --- |
| Criteria   * 1. Types of maintenance   2. Maintenance plans   3. Typical timeframes between maintenance tasks   4. Documentation required for maintenance and verification of maintenance activities   5. Actions required when faults cannot be rectified |

| Session | Criteria | Activities and resources | Skills check |
| --- | --- | --- | --- |
| 1  3 hours | 13.1 Types of maintenance  **Introduction to unit and expected outcomes**   * Understand the different types of maintenance. * Understand the different types of maintenance plans for the different BSE systems.   (Skills: CSA) | Activities   * Facilitate classroom discussion. * Deliver **PowerPoint 1: Types of maintenance**. * Complete **Worksheet 1: Types of maintenance task**. * As a class, come up with a list of maintenance examples learners may already know. Discuss others relevant to the construction industry and building services engineering sector and explain why they are used.   Resources   * **PowerPoint 1 Types of maintenance**. * **Worksheet 1** * Videos – relevant YouTube or other related videos * Other key information about maintenance activities specific to the BSE sector at the tutor’s discretion | Oral questioning  Worksheet 1  Feedback on Worksheet 1 |
| 2, 3  6 hours | 13.2 Maintenance plans  13.3 Typical timeframes between maintenance tasks   * Learn the different timeframes between maintenance activities. * State the different tasks to be carried out during the maintenance of BSE systems. | Activities   * Facilitate classroom discussion. * Deliver **PowerPoint 2: Maintenance plans and timeframes**. * Complete **Worksheet 2**: **Research activity**. * Complete **Worksheet 3**: **Maintenance plans and recommended timeframes**. * Complete **Worksheet 4**: **Maintenance process**. * As a class, come up with a list of the maintenance plans learners may already know. Discuss others relevant to the construction industry and building services engineering sector.   Resources   * **PowerPoint 2 Maintenance plans and timeframes** * **Worksheet 2** * **Worksheet 3** * **Worksheet 4** * Videos – relevant YouTube or other related videos * **Other key information about maintenance activities specific to the BSE sector at the tutor’s discretion** | Oral questioning  Worksheet 2  Worksheet 3  Worksheet 4  Feedback on Worksheets 2, 3 and 4 |
| 4  3 hours | 13.4 Documentation required for maintenance and verification of maintenance activities  (Skills: EC4)  13.5 Actions required when faults cannot be rectified   * Identify the various pieces of documentation necessary to complete maintenance activities. * Understand the actions required when faults cannot be rectified.   (Skills: MC2, MC9, EC1, EC3, EC4) | Activities   * Facilitate classroom discussion. * Deliver **PowerPoint 3**: **Documentation and fault action**. * Complete **Worksheet 5**: **Scenario** and **Worksheet 6**: **Landlords and gas safety**.   Resources   * **PowerPoint 3 Documentation and fault action** * **Worksheet 5** * **Worksheet 6** * Video – relevant YouTube or other related videos * Other key information about maintenance activities specific to the BSE sector at the tutor’s discretion * Learners to complete the **multiple-choice questions** to test their learning throughout this unit. | Oral questioning  Worksheet 5  Worksheet 6  Feedback on Worksheets 5 and 6 |