**14: Tools, equipment and materials**

# Sample scheme of work

This sample scheme of work covers both classroom- and workshop-based learning for **Tools, equipment and materials**. It is based on 3 hours per session for 2 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).

14.1 Methods used to ensure tools, equipment and materials are fit for purpose

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.**

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# Sample scheme of work

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

**Tutor’s name:** Enter the tutor’s name here

**Number of sessions**:2 **Delivery hours**: 8 **Venue**: **Group**:

|  |
| --- |
| Criteria* 1. Methods used to ensure tools, equipment and materials are fit for purpose
	2. Maintenance of tools equipment and materials
 |

| Session | Criteria | Activities and resources | Skills check |
| --- | --- | --- | --- |
| 1 4 hours | 14.1 Methods used to ensure tools, equipment and materials are fit for purpose (Skills: MC1) 14.2 Maintenance of tools, equipment and materials**Introduction to unit and expected outcomes*** Identify the methods to ensure tools, equipment and materials are fit for purpose and the required checks that are undertaken to ensure this.
* Understand the procedure that should be applied for tools and equipment that fail safety checks.
* State the methods of safe supply for electrical tools and equipment on site.
* Understand the maintenance requirements of tools, equipment and materials.
 | Activities* Facilitate classroom discussion.
* Deliver **PowerPoint 1**: **Tools, equipment and materials and their maintenance requirements**.
* Complete **Worksheet 1: Crossword**, **Worksheet 2**: **Maintaining a drill** and **Worksheet 3**: **Changing a drill bit**. Use as knowledge checks.
* As a class, come up with a list of the various tools, equipment and materials that will be used in the BSE sector of the construction industry and describe the maintenance requirements for these.

Resources* **PowerPoint 1 Tools, equipment and materials**
* **Worksheet 1**
* **Worksheet 2**
* **Worksheet 3**
* Other key information about the maintenance requirements of commonly encountered tools, equipment and materials in the BSE sector of the construction industry.
* Learners to research and present back PAT testing as an example of tool maintenance task

[PAT (Portable appliance testing) - HSE's answers to popular questions](https://www.hse.gov.uk/electricity/faq-portable-appliance-testing.htm) | Oral questioning Worksheet 1Feedback on Worksheet 1Worksheet 2Feedback on Worksheet 2Worksheet 3Feedback on Worksheet 3 |
| 24 hours | **Workshop session** reinforcing knowledge learned in Session 1. Learners undertake maintenance requirements for the different tools in the BSE sector.* Identify the methods to ensure tools, equipment and materials are fit for purpose and the required checks that are undertaken to ensure this.
* Understand the procedure that should be applied for tools and equipment that fail safety checks.
* State the types of safe supply for electrical tools and equipment on site.
* Understand the maintenance requirements of tools, equipment and materials.
 | Activities* Facilitate workshop discussion.
* Learners to conduct routine maintenance and inspections of common tools found in the BSE sector of the construction industry.

Resources* All tools, equipment and materials as specified in the range and the maintenance documentation required for each.
* Other key information about maintenance of tools, equipment and materials common to the BSE sector.
* Learners to complete the **multiple choice questions** to test their learning throughout this unit.

  | Oral questioning  |