

PORTABLE APPLIANCE TESTING

This short course is delivered in accordance with the 'Codes of Practice for In-Service Inspection and Testing of Electrical Equipment' 3rd Edition.

It is a legal requirement that all electrical equipment (including portable appliances) used at work shall be adequately maintained. In order to meet this requirement, appliances should be inspected and/or tested at regular intervals. This course provides participants with an understanding of the legal requirements and the expertise to carry out the inspection and testing competently.

COURSE OBJECTIVES

On completion of the course, participants will be able to:

- Understand the dangers associated with PAT testing
- Recognise the precautions necessary both for safety, and for the protection of equipment
- Understand the legal requirement for testing portable appliances
- Assess the required frequency of inspection and testing
- Understand the importance of specific identification of equipment
- Recognise the testing requirements for different classes of equipment
- Carry out visual inspection of appliances and equipment
- Carry out the following tests using a range of PAT testing equipment:
 - Earth continuity (low and high current)
 - Insulation resistance
 - Load test
 - Earth leakage
- Correctly interpret test results and determine appropriate pass levels
- Maintain a system of record keeping.

Course Delivery Options

The course described above covers all required aspects of in-service appliance inspection and testing. Classroom and practical sessions provide explanation and practice of various testing techniques. A t3UK Achievement certificate is awarded to successful candidates.

Alternatively, the course can be delivered with emphasis on Visual Inspection only, providing appointed persons with the level of competence required to perform regular inspections. A t3UK Attendance certificate is awarded to successful candidates.



T3UK
Janetstown Industrial Estate
Thurso, Caithness
KW14 7XF
Telephone: 01847 894626

Candidates are given an overview of the legal requirements so that they understand why they need to do in-service inspection & testing, and the competence issues surrounding portable appliance testing. We then look at how the testing should be carried out.

The importance of visual inspection is emphasised, followed by exposure to examples of various incorrectly-wired plug-tops, damaged cables and appliance faults, using actual equipment, and a series of pictures of the offending items.

Candidates are required to perform visual inspections on a range of typical electrical appliances, and are asked to report on the condition of each item.

Electrical tests are then explained, with a comprehensive set of course notes, which help to clarify which tests should be done and what the acceptable pass/fail limits of each test are. Useful reference tables dispense with the need for the candidates to perform complex calculations, for example; in the case of the maximum earth continuity test readings allowed for extension leads of different lengths.



Candidates then perform the necessary electrical tests on a range of everyday electrical appliances, or if required, on specific items of equipment. Testing is carried out using a selection of electrical test meters, and a typical automated PAT testing unit. (The use of specific automated PAT testing equipment can be included by arrangement.)

Finally, a discussion of record-keeping requirements and examples of certificates, and software commonly used for recording the results of PAT testing. Candidates are then asked to complete some example forms using the results that they have gained from the tests that they carried out.

A short, multiple-choice question paper is then used to assess the candidates' knowledge. Satisfactory outcomes in both theory and practical elements will lead to the award of the relevant certificate.



T3UK
Janetstown Industrial Estate
Thurso, Caithness
KW14 7XF
Telephone: 01847 894626