



The Knowledge Network

IN-SERVICE INSPECTION AND TESTING OF ELECTRICAL EQUIPMENT One Day Course

City & Guilds
2377-200

The Electricity at Work Regulations require electrical systems to be maintained to prevent danger. The Regulations include all electrical equipment which can be connected to a source of electrical energy and which may cause personal injury. Such equipment can take the form of electrical/electronic appliances, tools, heating apparatus and test instruments, etc.

A number of Health and Safety Executive documents, BS and BS EN publications, the Electricity at Work Regulations and IEE Code of Practice for In-service Inspection and Testing of Electrical Equipment and the IEE Electrical Maintenance document may be referred to for authoritative guidance on maintenance procedures.

This one-day Course provides an overview only of the IEE Code of Practice for participants intending to sit City and Guilds 2377-200 examination. The Code of Practice should not be construed as having legal status.

The use of particular manufacturers' test apparatus and instruments should not imply endorsement of that apparatus by the Institution or individual lecturers'. Nor will attendance at this one-day Course provide adequate training to enable attendees to be considered as being competent to undertake electrical equipment maintenance. Education, training and experience combine to achieve this competency.

OBJECTIVES

By the end of this Course participants should:

- 1 understand the legal requirements for maintenance of electrical equipment
- 2 be able, through inspection, to identify the different types, construction and classification of electrical equipment
- 3 be able, through inspection, to identify the suitability of electrical equipment for use
- 4 have underpinning knowledge and understanding of the in-service tests carried out on different types and classes of equipment
- 5 be able to carry out practical in-service inspection and testing on two items of electrical equipment
- 6 be able to complete an inspection and test record relating to electrical equipment
- 7 be able to select suitable frequencies of maintenance
- 8 have knowledge of the various recording documents used in the inspection and testing of electrical equipment and know the requirements for record keeping and training of personnel, etc.



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COURSE CONTENT AND TIMETABLE

- 08.45 Registration and Introduction
- 09.00 **Module A** - Structure of the Code of Practice
- 10:00 **Module B** - Inspection of electrical equipment.
- 10.30 Coffee
- 10:45 **Module B** – Cont'd
- 11.15 **Module C** – Testing of electrical equipment
- 12.30 Lunch
- 13:30 **Module D** – Documentation and record keeping
- 14:15 Summary of training modules A – D and review of Questions at the end of each module.
- 14:30 Split participants into two groups

Group A – Practical – Lecturer 1

Lecturer to demonstrate portable appliance testing using a variety of test equipment. Participants are to be sub-divided into suitably sized groups to inspect and test a soldering iron and hairdryer. The loose-leaf model records, Forms Va and Vb from the Code is to be completed by participants.

Lecturer to complete Assessment Observation sheet for each participant and attach participant's completed model records for retention by the Courses Unit.

Group B – Practical – Lecturer 2

As above

Tea available from 15:00

- 16.00 Mock Exam (half an exam paper)
- 16:30 Solutions to Mock Exam Paper, open discussion and any final questions
- 17:00 Close of course and Participants to take away Revision Question Paper
Guidance for Course Participants Concerning Conduct of Practical Exercises.

Guidance for Course Participants Concerning Conduct of Practical Exercises

- 1) All participants are reminded of the responsibility that each has for their own safety and that of others throughout the practical session.
- 2) Manufacturer's test apparatus operating instructions must be followed.
- 3) Electrical equipment must not be touched whilst tests are being carried out.
- 4) Participants will be grouped into manageable numbers during the practical session when each person should take the opportunity to use the test apparatus and complete the relevant record.