



**ADULT COURSES  
ELECTRICAL**



**SOUTHAMPTON  
ENGINEERING  
TRAINING  
ASSOCIATION**

## ADULT COURSES ELECTRICAL



### CONTENTS

Electricity Work Regulations  
1989 **p2**

Introduction to BS7671  
Requirements for Electrical  
Installations **p2**

City & Guilds 2382 BS7671  
2008 Requirements for  
Electrical Installations **p3**

Pre-AM2 Refresher **p4**

Achievement Measurement  
2 (AM2) **p4**

City & Guilds 2392 Level 2  
Certificate in Fundamental  
Inspection, Testing and  
Initial Verification **p4**

City & Guilds 2391-10  
Level 3 Certificate in  
Inspection, Testing and  
Certification of Electrical  
Installations **p5**

City & Guilds 2391-20 Level 3  
Certificate in Design, Erection  
and Verification of Electrical  
Installations **p5**

Comp'Ex **p6**

Comp'Ex Refresher **p7**

An introduction to Programme  
Logic Controllers (PLCs) **p7**

City & Guilds 2377 Code of  
Practice for In-service  
Inspection and Testing of  
Electrical Equipment  
(PAT Testing) **p7**

### Electricity Work Regulations 1989

THE REGULATIONS CAME INTO FORCE ON 1 APRIL 1990. The 'electricity at work regulations 1989' apply to everyone in industry from the managing director and office staff to shop floor personnel. The course will explain the health and safety legislation on electrical safety in layman's terms for everyone at work and its implications for all personnel.

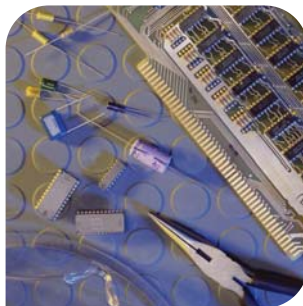
This course can be presented on-site using the customer's own facilities and structured to meet the company's particular needs.

### Introduction to BS7671 Requirements for Electrical Installations

*(I.E.E. Wiring Regulations 17th Edition)*

This course introduces you to the current BS7671 edition and describes its main features. It will make you aware of I.E.E. publications that provide guidance both for designers and installers to achieve compliance with the standard. Those who are new to the wiring regulations and those with a very good knowledge of the previous regulations will benefit equally from this course.

*Duration: One half day.*





**City & Guilds 2382 BS7671 2008  
Requirements for Electrical Installations  
(I.E.E. Wiring Regulations 17th Edition)**

Working towards the full City & Guilds certification. (This qualification replaces 2381). This qualification is aimed at practising electricians with relevant experience and is intended to ensure that they comply with the format, content and applications of the requirements for Electrical Installations (BS 7671: June 2008).



The qualification covers topics such as protection for safety, selection and erection of equipment, and inspection and testing to meet the standards of the IEE Wiring Regulations. Successful learners could progress to our qualifications in Inspection, Testing, Design and Certification of Electrical Installations (2392).

**Duration: Five days.**

## ADULT COURSES ELECTRICAL



### **Pre-AM2 Refresher**

A 'refresher' course for candidates who wish to sit the full AM2 test. The course can be tailored to cover an individual's particular areas of weakness if required.

*Duration: One day.*

### **Achievement Measurement 2 (AM2)**

A licensed national electrotechnical training (NET) practical test.

The achievement measurement 2 skill test must be taken by apprentices who are approaching the end of their training for the JIB apprentice training scheme and the electrical installation engineering modern apprenticeship and others who wish to use the test to accredit practical experience.

#### *The AM2 test comprises of four sections:*

- Composite installation, visual estimation & functional operation;
- Inspection & testing the installation;
- Safe isolation of supplies & test unit (including risk assessment);
- Fault diagnosis & fault rectification.

*Duration: Three days.*

### **City & Guilds 2392 Level 2 Certificate in Fundamental Inspection, Testing and Initial Verification**

This qualification is aimed at practising electricians who have not carried out inspection and testing since qualifying or who require some update training before going on to achieve the 2391-10.



### **City & Guilds 2391-10 Level 3 Certificate in Inspection, Testing and Certification of Electrical Installations**

This course is intended for personnel in electrical contracting companies who have responsibilities for the inspection, testing and certification process. It addresses in particular the implications of BS 7671.

The scheme has been developed in association with the national inspection council for electrical installation contracting (NICEIC) and will satisfy the NICEIC's particular requirement that prospective qualifying managers (QMs) and operatives are fully conversant with the requirements of BS 7671 for inspection, testing and certification of electrical installations.

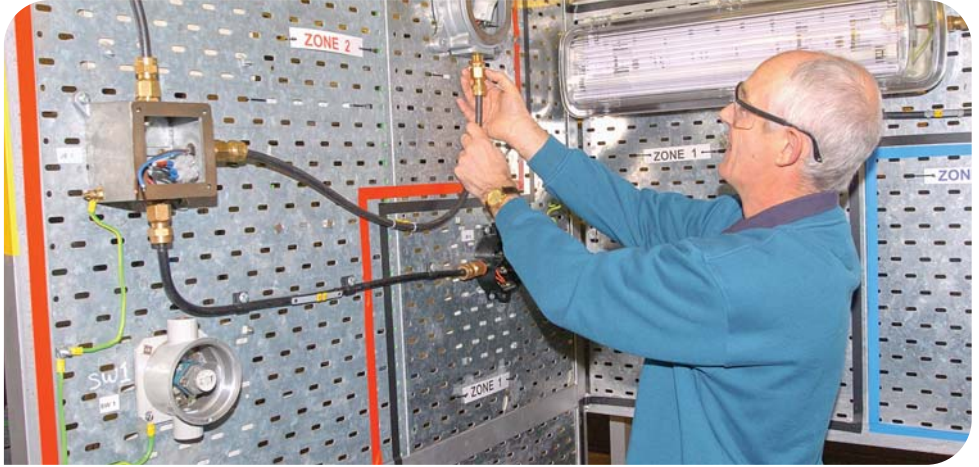
*Duration: Five full days including practical assessment, plus an evening exam.*

### **City & Guilds 2391-20 Level 3 Certificate in Design, Erection and Verification of Electrical Installations**

This was previously certified under the qualification 2391-02 (2400 prior to that). It is intended for personnel in electrical contracting companies that have responsibility for the quality of the design, specification, installation, inspection and testing processes. It addresses, in particular, the implications of the Wiring Regulations for Electrical installations.



## ADULT COURSES ELECTRICAL



### Comp'Ex

Comp'Ex is the national training and assessment scheme for electrotechnical personnel who work in potentially explosive atmospheres.

Potentially explosive atmospheres occur in many industries such as petrochemical and refining plants. They may also be found in spraying plants, flour mills, woodworking machine plants and petrol forecourt environments.

Failure to ensure safe and efficient working practices in these circumstances could result in the ignition of explosive gases or dust clouds leading to injury or even fatalities.

The scheme is a national training initiative between the Engineering Equipment and Materials Users Association and JTL and is supported by the Health and Safety Executive.

### *Three to five days, dependent upon units studied:*

- EX01** Preparation and installation of Ex'd, Ex'e, Ex'n and Ex'p systems.
- EX02** Inspection and maintenance of Ex'd, Ex'e, Ex'n and Ex'p systems.
- EX03** Preparation and installation of Ex'i systems.
- EX04** Inspection and maintenance of Ex'i systems.



## Comp'Ex Refresher

Comp'Ex Certificates must now be renewed every five years. The Comp'Ex refresher course is intended for personnel who wish to update and/or refresh their knowledge and skills of electrical and instrumentation crafts within potentially explosive atmospheres in onshore and offshore situations.

The refresher course contains training and assessment that, upon satisfactory completion, will lead to the renewal of the certificate of core competence for those personnel who have previously completed the corresponding modules (EX01, EX02, EX03, EX04) of the basic Comp'Ex course.

*Duration: Two days.*

## An Introduction to Programmable Logic Controllers (PLCs)

This basic PLC course is designed to give delegates, with very limited or no previous experience, an introduction to PLC technology and develop a basic understanding of PLCs, their use and simple programming and editing.

## City & Guilds 2377 Code of Practice for In-service Inspection and Testing of Electrical Equipment (PAT Testing)

A qualification designed for practising electricians to ensure the use of the Institute of Electrical Engineer's Code of Practice for inservice inspection and testing of equipment.





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