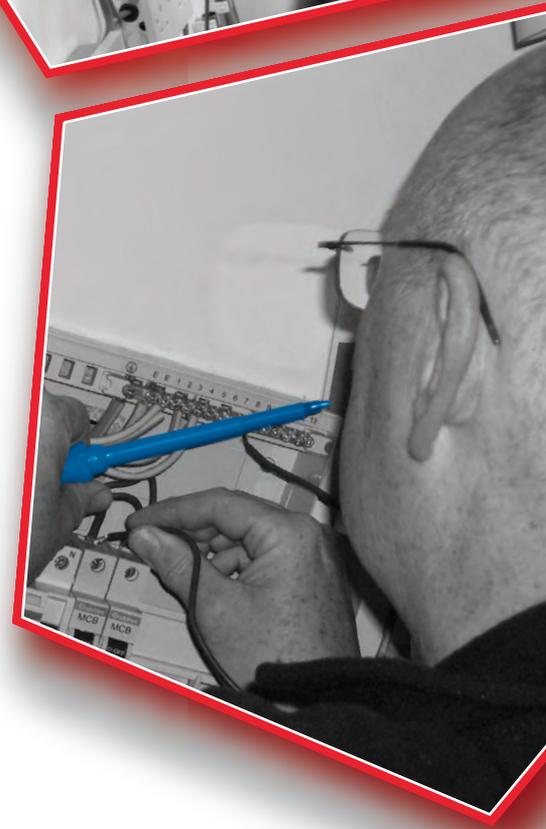


electrician  
academy

# Professional Electrical course

Qualifications package



# The Professional Level Course to Becoming an Electrician

The Course teaches you how to: install lighting, sockets, consumer units, any other domestic electrical installation jobs and to certify full house re-wires. You will also become qualified to Inspect & Test Commercial, Domestic or Industrial Electrical installations.

No previous experience is necessary and there are no entry requirements, which is why the first module of this course is based on giving you the practical knowledge and a safe introduction and grounding into the world of the electrician regardless of any previous experience or not. You will be given training and instruction designed to give you a platform on which to become successfully qualified.

Earnings for Electricians currently range between £150-£350 per day. Those who develop a good reputation can be inundated with work. Becoming an Electrician also offers you the opportunity to set up your own business to develop a lifelong career and according to the Government Construction Skills Network Labour Market Intelligence report 2010 - 2014, there will be a skills shortage in the Electrical Industry in the UK.

It's a job for life.

# 5 City & Guilds qualifications gained on this course

This bespoke course consists of the recognised technical and professional qualifications within the Electrical Industry:

## 1. Part P Domestic Installer

Teaches you how to install and maintain lighting, sockets, cooker circuits, consumer units and certify domestic installations including full house re-wires.

## 2. C&G 17th Edition Electrical Regs

To become recognised as having a working knowledge of the wiring regulations.

## 3. C&G PAT Testing (Portable Appliances)

Qualifies you to test devices to prevent accidents involving portable appliances. It is a legal responsibility of employers, employees and self-employed persons to ensure that no danger results from the use of such equipment.

## 4. C&G 2392 Fundamental Inspect & Test

This allows you to progress and qualify to inspect and test new circuits on an existing Domestic, Commercial or Industrial installation or complete new installations.

## 5. C&G 2395 Periodic Inspection & Testing

A vital qualification that covers all elements for the inspection and testing of multiple circuits on existing Commercial, Domestic or Industrial installations, including issuing safety reports and the recommendation of works that need to be carried out.

This package will enable you, with little or no previous experience, to train to the required industry standard and all equipment, books and tools are provided for use during the courses.

“It got to the point where I just thought, I’m 55 and I’ve had enough of travelling down the M4 every day... I decided it was time for a career change...”

Gareth James

## The decision to change career, and lifestyle:

### Career Change

I had been working in pharmaceuticals for about 28-29 years as a commercial director in a head office role. It saw me travelling across the country to places like Newbury and Maidenhead practically five days a week. It got to the point where I just thought “I’m 55 and I’ve had enough of travelling down the M4 every day”. I decided it was time for a career change, and luckily I was able to benefit from a redundancy payment so the timing was pretty good.

### Which Trade to Pursue

Originally I was going to do carpentry. I found Access on Google and arranged to come visit the centre. While I was there I realised that while a lot of people tend to try their hand at carpentry, people are less likely to try fixing electrics themselves since it’s dangerous. I decided to go ahead and do the whole thing, I could have just done the first three modules to be fully qualified and join a Competent Person Scheme, but by being able to do inspections and sign off landlord certificates I’ll have more strings to my bow.

### Self Employment in the Future

Now that I’ve completed my course I’ve set up my own business under the name G James Electricals Limited. I’ve been advertising locally with the estate landlords’ society and done various bits and bobs. Everything from some inspection and testing to fitting lights and a fan in a bathroom.

## Enjoying the Experience

It was a great course and all three tutors I had were knowledgeable and helpful in answering any questions that I had. As most of the exams are multiple choice the work wasn't too difficult, but I did find myself doing a lot of revision for the 2394 and 2395 exams. The three-phase was also a lot to do and quite demanding – especially during the height of summer!

“someone self employed at the top of the ladder can earn £60 - £70,000 a year.”

From Channel 4's 'Bricking it' website

I've set up my own business...  
...Everything from inspection and testing to fitting lights...

City &  
Guilds



# Teaching & Assessment Specification

## Part P Domestic Electrical Installer certificate

- Component exchange
- Applicable building regulations
- Electrical safety legislation regulations, standards and terminology
- Pre-work survey / inspections
- Safe isolation procedures
- Earthing and bonding requirements
- Electrical test procedures
- Basic circuit design
- Installation and replacement of electrical components and fittings
- Checking the correct and safe operation of installed electrical components
- Recording of electrical test results, completion of certification and notification requirements
- Special locations
- Domestic lighting circuits, SELV
- 3 Phase supplies
- Carry out installation inspection including components

## 17th Edition Certificate

- Understand the scope, object and fundamental principles of BS7671.
- Understand the definitions used within BS7671.
- Understand how to assess the general characteristics of electrical installations.
- Understand requirements of Protection for safety for electrical installations
- Understand the requirements for Selection and erection of equipment for electrical installations
- Understand the requirements of Inspection and testing of electrical installations
- Understand the requirements of special installations or locations as identified in BS 7671.
- Understand the information contained within the appendices of BS7671.

## 2392 Inspection & Testing

### Fundamental Initial Verification of Electrical Installations - Inspection

#### Practical Skills

- Carry out the Initial Verification (inspection, testing and certification) of an installation to BS 7671
- Complete an Electrical Installation Certificate (as given in BS 7671), for the installation in item 3, including the Schedule of Test Results
- Carry out an inspection of installation components and complete the Schedule of Inspections.

#### Underpinning Knowledge

- Requirements for Initial Verification
- Information required to correctly conduct the initial inspection and testing of an installation
- Statutory and non-statutory requirements and relevant guidance materials which apply to the activity of inspecting and testing of electrical installations
- Need to comply with statutory and non-statutory requirements, guidance material for particular locations and environments in which electrical installations are installed.
- Essential and optional information to be contained on the Electrical Installation Certificate and Minor Electrical Installation Works Certificate and how the information is recorded.

## PAT Testing

### Level 3 Certificate of Competent Management of Electrical Equipment Maintenance

- The statutory and non-statutory requirements relevant to the management of electrical equipment maintenance
- The electrical units of measurement associated with in-service inspection and testing of electrical equipment
- How equipment construction and classification reduces the risk of electric shock
- The procedures for the in-service inspection and testing of electrical equipment
- How to carry out combined inspection and testing
- Understand the information contained on documentation in-service inspection and testing of electrical equipment

### Level 3 Certificate for the Inspection and Testing of Electrical Equipment

- The statutory and non-statutory requirements relevant to the management of electrical equipment maintenance
- How equipment construction and classification reduces the risk of electric shock
- The requirements for the inspection and testing procedures for electrical equipment
- The training that is required for managers, inspectors and users of electrical equipment

## Fundamental Initial Verification of Electrical Installations – Testing

### Practical Skills

- Select the correct instruments or functions and appropriate scales to carry out tests
- Check and prove instruments and leads for safety and function
- Carry out the Initial Verification (inspection, testing and certification) of an installation to BS 7671
- Complete an Electrical Installation Certificate (as given in BS 7671 or Guidance Note 3), for the installation in item 3, including the Schedule of Test Results
- Carry out an inspection of installation components and complete the Schedule of Inspections

### Underpinning Knowledge

- Instruments
- Sequences
- Productive Conductors
  - Earthing conductors
  - Main protective bonding conductors
  - Supplementary equipotential bonding conductors
  - Circuit protective conductors
- Ring Final Circuits
- Insulation Resistance
  - Cables connected in parallel
  - Variation in cable length
  - Client consultation
  - Safety procedures and notices
  - Isolation of circuits and equipment
  - Voltage sensitive equipment and switches
  - Electronic components

- SELV
- Special Installations and location
  - Circuits
  - Equipment
  - Zones
- IP Code
- Polarity
- Earth Electrodes
  - Earth electrode resistance tester
    - Earth fault loop impedance
    - TN-S
    - TN-C-S
    - TT
    - The tests used for measuring actual earth fault loop impedance
    - Methods of calculation of earth fault loop impedance from given data and measurement of conductor impedance
- Residual Current Devices (RCD)
- Prospective Fault Current
  - Prospective short-circuit current
  - Prospective earth fault current
- Verification of voltage drop

## 2395 Inspection & Testing

- The requirements for completing the safe isolation of electrical circuits and installations
- The requirements for inspecting, testing and recording the condition of electrical installations
- The requirements for the safe testing of electrical installations which have been placed in service
- The requirements for testing circuits which have been placed in service and may require isolation
- The requirements for testing energised installations
- Understand and interpret test results

# Electrician Academy, a part of Access Training Academies...

*"This training is the model that  
technical colleges need to follow.  
It is two years in advance of others  
that I have seen."*

Mr Brian Thomas,  
City & Guilds External Verifier



access  
training academies  
[acesstraininguk.co.uk](http://acesstraininguk.co.uk)

Copyright © 2014 Access Training (Wales) Ltd



Call our advisors now for  
free to discuss your course  
and career options:

03333 442 355