

Domestic Installation Workshop

Course code TS4U-MOD1

Practical installation course enabling you to install everything from the consumer unit to the socket and everything in between, for those with little or no electrical experience. Our most popular course and is the first element of our TS4U-17 package!



This is a practical training course that provides the foundation knowledge prior to undertaking the Part P Domestic Electrical Installers VRQ: TS4U-PP qualification.

Over the years that we have been providing electrical training we've found that many people who enrol on our Part P and 17th Edition courses lack the basic electrical installation knowledge that will ensure they get the most from these intensive courses.

With that in mind, we've created this special 5 Day Domestic Installation course to take you from having little or no electrical experience through to having the essential grounding and knowledge you'll need to build an electrical career - and to pass the assessments and tests in later courses.

Covering the practical skills and theory in workshop and classroom you need, this is the best possible way of bringing you up to scratch in a friendly and supportive environment - and opening the doors to a new career.

5 Day Domestic Electrical Installation Workshop Content

Learn about...

- Ring main circuits (sockets)
- Basic lighting circuits
- 2 way lighting circuits
- 2 way lighting and intermediate circuits
- Radial power circuits (cooker points etc)
- Earthing and bonding procedures
- Zoning and selection of equipment
- Selecting cable sizes and calculating load demands
- Introduction to electrical regulations
- Health & safety
- Safe Isolation procedures
- Identifying Three Phase Systems
- Electrical calculations

Certificate

Candidates will be awarded a TS4U certificate of achievement.



Principles of Electro Technology

Course code TS4U-MOD2

This science workshop gives you the foundation knowledge to fully understand how and why electrical systems works, which is essential when considering progression onto City and Guilds 2391 Inspection and Testing and other contractor short courses.



Knowledge of electrical science is essential when progressing onto Solar PV, 2391 and other contractors courses where a deeper understanding is required.

Fundamentals of electricity:

- Electron theory including atomic elements and free electrons
- Charge and attraction
- Coulomb's Law
- Conductors, Insulators and Semiconductors
- Current
- Voltage
- Resistance
- Electrical symbols and mathematical prefixes.

Simple electrical circuit theory:

- Ohm's Law
- Using digital multimeters to measure resistance, voltage and current
- Practical workshop including the building a simple electrical circuits calculating the expected value of current and measuring the actual resistance, voltage and current
- DC series circuits, this follows the theory then practical route
- DC parallel circuits, again this follows the theory then practical route reinforcing the use of previously learnt techniques.
- DC series - parallel circuits, following the same pattern as the previous day

- Power, solving power problems using power formulae
- Magnetism
- Electromagnetism and electromagnets.

AC Theory

- Introduction to AC, sine waves, single and 3 phase supplies
- AC generation
- Frequency
- Voltage and current, peak, instantaneous and RMS values
- Relationship between line and phase voltage in a 3 phase system
- Transformer theory, calculation and practical.
- Capacitance theory, calculation and practical
- Inductance theory, calculation and practical
- Impedance theory, and calculation of circuit impedance.

Certificate

Candidates will be awarded a TS4U certificate of achievement.

