



## PTT Installer 1

PTT Installer 1 has been designed as the 'foundation stone' of our PTT Starter Package and is aimed at those who have no previous experience in the electrical industry. This course best suits those who are looking for a change in career or for people seeking employment in the electrical industry for the first time.

The first part of the course introduces the candidate to basic electrical theory. The practical element of the course allows candidates to build and test the majority of electrical circuits found in domestic premises.

### Syllabus

#### Basic Electricity – 1.5 days

- Atomic Theory of current flow
- Current and Voltage
- Resistance
- Ohm's Law
- Resistors in series and parallel
- AC theory – frequency, capacitance and inductive reactance
- Magnetism – permanent and electromagnets transformers

#### Basic Practical – 3.5 days

- Safe Isolation
- Wire types and sizes
- Cable preparation and termination
- Wiring systems
- Protective devices – fuses and circuit breakers
- Understanding and constructing a ring and radial power circuit
- Understanding and constructing one and two way lighting circuits
- Testing of all circuits constructed
- Continuity and insulation resistance testing
- Testing of earth loop impedance and fault current
- RCD testing

Each student will have a spacious work area and all circuits installed will be tested and energized.

**Duration:** 5 days

**Cost:** £575 +VAT [£661.25]

*Includes buffet lunch each day.*