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## Practical Refrigeration Training Centre

### Course Details

## Foundation Electrics

### Introduction

The **Foundation Electrics** course is designed to take you from absolute basics to an understanding of electricity and its applications. Health and safety issues are intrinsic and the course will include a section on **safe isolation**.

Assuming no prior knowledge although some practical aptitude is essential, this course is suitable for refrigeration and air conditioning engineers, or inexperienced / apprentice electrical engineers.

### Objective

To achieve a basic understanding of electricity and its applications.

### Methodology

The topics will be covered with emphasis on practical work from the delegate using actual working systems where applicable. Theoretical work will be assisted by visual aids and discussion session and all delegates will receive a comprehensive set of course notes for reference material.

The course book includes theory questions to test interim knowledge and then a final assessment will be held at the end of the course consisting of a written theory paper and a practical test.

### Synopsis

- Health and safety

Electrical concepts, including:

- Understanding electricity, common terms, transformers, capacitors, diodes, rectifiers and types of motors
- Ohms law calculations
- Induction
- Terminating cables and flexible cords
- Electric shock
- Safe isolation
- Instrumentation
- Introduction to electrical regulations
- Electrical distribution





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#### Electrical concepts (continued):

- Electrical supply systems
- Earthing arrangements and protective conductors
- Installing PVC cable
- Electrical safety checks

Delegates can also develop their electrical knowledge by using this as a basis for other level 3 courses such as the City and Guilds 2382-18 "18th Edition", City and Guilds 2377-22 "PAT testing", or the City and Guilds 2391-52 "Initial and Periodic Inspection and Testing of Electrical Installations". Information on these can be found elsewhere on our website.

