

REFRIGERATION SYSTEM ELECTRICS

A 4½ day electrical training course designed for personnel having a mechanical background and who are involved in maintaining refrigeration and air-conditioning plant.

The objectives of the course are to give attending personnel an insight into electrical controls and their application to motors, protection and monitoring devices, as used in refrigeration and air-conditioning plant.

On completion of the programme, candidates should be able to read and understand electrical schematic diagrams and carry out simple fault diagnosis on refrigeration and air-conditioning control panels.

An in house certificate of competency would be issued after an assessment at the end of the course.

Syllabus includes:

Safety

- Dangers of electricity
- Safety precautions

Fault Protection

- Circuit breakers & fuses

Test Instruments

- Types of test instruments and their correct use

Panel Components

- Relays, contactors, timers etc.
- LP/HP cut-outs and Oil Differential pressure cut-outs etc.

Motors

- The operating principle of AC motors
- Types of AC motors and their applications
- Starting and control of AC motors

Electrical Drawings

- Circuit symbols and abbreviations
- Schematic and wiring diagrams