



## 2 DAY INTRODUCTION TO ELECTRICAL ENGINEERING

**LEVEL:** This Electrical Engineering Introductory course has been designed to introduce learners to Electrical engineering principals, electrical safety in the workplace and basic electrical fault finding that will give the following key business benefits:

- Reduced health and safety risks for employees and others affected by electricity at work.
- Compliance with health and safety legislation, reduces risk of prosecution and/or civil claims.
- Accredited training ensuring skilled, competent and compliant workforce.

**COURSE DURATION:** 2 days: During the course, learners will participate in a blended learning environment with practical demonstrations, videos and exercises, as well as underpinning theory to ensure that their understanding of the material is comprehensive.

### **COURSE OBJECTIVE:**

The aim of the Introduction to Electrical Engineering course is to provide the learner with the essential knowledge, skills and attitude to perform electrical maintenance tasks to the highest level, developing the essential skills and competency to work accurately and safely.

**CERTIFICATION (ACCREDITED):** As an option, customers can choose whether or not to accredit the learning via an end of course assessment. If this option is preferred, an EAL accredited certificate of achievement will be issued to learners achieving 60% and above from a 10 question based written assessment.

### **COURSE CONTENT:**

- Principles of Electricity and Basic Generation
- Overview of Electrical Systems (Marine and Land Sectors) (High Voltage & Low Voltage)
- Hierarchy of Electrical Management and Electrical Definitions (High Voltage & Low Voltage)
- Health & Safety at work Act 1974, Electricity at work Regulations and the Provision and Use of Work Equipment Regulations 1999
- Employer and Employee responsibilities under the act and regulations
- Awareness of the dangers associated with maintaining & inspecting electrical equipment
- Able to identify electrical hazards and their controls
- Be able to describe best practice when working with electricity
- Portable Appliance Testing (PAT)
- Reliability Centred Maintenance Electrical (RCM)
- Use of Multi Meter and taking measurements
- Have the awareness of company electrical safety procedures, including Standard Operating Procedures (SOP) Safe Systems of Work (SSOW), Lock Out Tag Out (LOTO) and safety bulletins

