



# Electrical Technology Refresher Course – Level 2 (ELT)

## CONTENTS

### Automation & Control (30 Hours)

- Program PLC for sequence operation
- Produce a ladder diagram from a given set of codes
- Design and install a PLC control project
- Assessment on PLC programming

### Switchboard Installation (30 Hours)

- Wire up indicating instruments
- Wire up protective devices of a switchboard
- Testing of over current protective devices
- Maintain LV main switchboard control panels

### Electronic Principles (20 Hours)

- Understanding of logic gates
- Connect simple digital circuits
- Check semiconductor devices (diode, zerne and transistors)
- Build simple electronic circuit
- Assessment

### Electric Drives (20 Hours)

- Determine the characteristics of a DCC machine
- Determine the characteristics of a 3-phase induction motor
- Determine the characteristics of a 3-phase alternator
- Connect and test Electrical Drive system for DC motor
- Connect and test Electrical Drive system for AC motor
- Assessment

### Computer-Aided Design & Drafting (20 Hours)

- Use editing tools in AutoCAD
- Draw electrical symbols
- Produce electrical SLD drawings for residential premises
- Produce electrical SLD drawings for industrial premises
- Produce drawings of main switchboard
- Assessment

**Course Duration : 120 Hours**

**Course Fees : \$1150/- (inclusive GST)**

**Test Fee: \$450/- (inclusive GST)**