



Industrial Electrician

QP Code: HYC/Q6101

Full Curriculum

Module 1

136 hrs

Following topics will be studied under this module

Topics:

- Project work
- Introduction to QP, Curriculum
- General Safety
- Fire Safety
- Electrical Safety
- Familiarization of Electrician Tools & Accessories
- Fundamental of electricity
- LV Switchgear care and maintenance
- Illumination
- Conductor & conductor joints
- Knowledge Of Indian Electrical Rules (IE Rules)
- Knowledge of International Electrotechnical Commission (IEC Standard)
- Knowledge of Bureau of Indian Standard (BIS)
- Basic Electronics

Module 2

192 hrs

Following topics will be studied under this module

Topics:

- Identification of Measuring Instruments
- Identification of different Materials (Metal & non-Metal)
- Understand the basic drawings
- AC & DC
- PCB Soldering
- Single phase & Poly phase System
- Magnetic circuits
- Wiring installation of Residential, commercial & Industrial
- Different starter installation for DC Motors
- DC motors
- DC Generator

Module 3

184 hrs

Following topics will be studied under this module

Topics:

- Industrial wiring & Control system
- Single Line Diagram
- Different Earthing System & testing
- AC motor
- Alternator
- Power Transformer
- Instrument Transformer
- Auto Transformer
- Main Electrical Panel Fittings

Module 4

104 hrs

Following topics will be studied under this module

Topics:

- Introduction to Automation
- Special electrical motors
- Bearing fittings
- UG cables & cable joints
- UPS & Inverter
- Introduction to PLC, Interfacing & Designing of PLC Trainer kit

Module 5

80 hrs

Following topics will be studied under the following module

Topics:

- Measuring equipment & instruments
- Understand electrical substation line diagram
- Identification of substation equipment
- AC/DC Drive system
- Thyristor Drive system
- Shaft alignment system

Module 6

64 hrs

Following topics will be studied under this module

Topics:

- Introduction to Hydraulics & Pneumatics system
- Familiar with different Flameproof motors, switchgear system, actuators etc.
- safety in hydrocarbon sector, Oil & Gas Safety
- Emergencies, rescue and first-aid procedures

Module 7: Industrial Electrician (Oil & Gas)

64 hrs

Voltage and current are the cornerstone concepts in electricity. We will create our first mental models for these basic electrical quantities. We will also talk about power, which is what happens when voltage and current act together.

Topics:

- Project work