

## Course Name: **BASIC LV SWITCHGEAR**

### Short description

This training course will provide a basic understanding of low voltage switchgear. The course will also make aware of types of protection equipment with a strong emphasis on safety.

### Objectives

- The participants will learn the functional principle and operation of the Low Voltage power distribution and control products.
- The main emphasis of the course is on teaching practical product knowledge, in order to enable maintenance, inspect and service LV Switchgear products, to find simple errors, and to replace the spare parts.

### Target Group

- Engineering students, Trainers.
- Operation/ Service / Maintenance/Commissioning staff.
- Supervisors, foreman, and technicians anyone involved in the maintenance of low voltage switchgear.

### Content

- Power generation, transmission, distribution Basics.
- Types of fault & Fault analysis, fault level calculation, definitions & terms used in Industry.
- Selectivity of grid system.
- Introduction and basic principles of low-voltage switchgear, switching principles.
- Basic Concepts of fault level, current carrying capacity.
- Principle of selectivity and cascading.
- Low Voltage offerings in Power Distribution in Industry today.
- Basic Control Products used in Industry today.
- Selection of different type of protection equipment and control unit of Siemens according to their specification, position in network, operating principle etc.
- List the most significant specifications that affect the design of low voltage switchgear.
- Safety engineering, guide to electrical safety, regulations permit to work and safe isolation.
- Practical exercises.

### Prerequisites

- Basic knowledge on power system.

### Note

After this course participants shall able to troubleshoot the errors, inspect and service LV Switchgear products, change or replace the spares /accessories.

### Type

Face-to-face training.

### Duration

18 hrs.

### Language

English.

### Course Fee

3500/- + tax

