

## INTRODUCTION

Switchgears play a vital role in the field of electrical transmission, distribution and utilization of Electricity. Both from the control and protection point of view, the switchgears are very important in any electrical network. The knowledge of their working principle, construction, purpose, handling and maintenance can ensure the continuity of power supply and proper working of the plant and machinery. Also, the switchgears protect the electrical equipment downstream whether in the supply network or the machine control.

The impact of loss of production for any reason is not a tolerable proposition from the business point of view. With this in view, the relevance of maintenance of switchgears cannot be undermined in any organization. While sufficient focus is being given to the maintenance aspects of machines and equipment, which are directly engaged in the production process, the supply and control system to the facility does not attract equal importance for the simple reason that its role is not directly visible though without which operation cannot be sustained.

Keeping this in view, IMTMA is organizing a training program, Practical Hands-on 3 days Workshop on Electrical Switch Gears, Protections & Applications

## FOCUS AREAS

- Basics of Electrical, Constructions of Drawings
- Contactors, Protective Relays and Breakers
- Cable Selection, Glanding & Lugs
- APFC Panels
- Maintenance of Panels
- Practical Session on DOL Starter
- Practical Session on Forward Reverse DOL Starter
- Practical Session on Remote ON & Remote OFF
- Practical Session on Semi Automatic Star-Delta Starter
- Practical Session on Fully Automatic Star-Delta Starter
- Practical Session on Variable Frequency Drive
- Practical Session on Interlocking of Contactors
- Practical Session on 3 Step Slipring Starter
- Practical Session on 4 Step Slipring Starter

## KEY TAKE AWAYS

- Insight into Basics of Electrical Switchgear & its applications
- Various Electrical Problems & Protective Relays
- Breakers and their Usage
- Hands on Experience in Running Induction Motors using Various Starters
- How to Read & Write the Control Wiring & Power Wiring
- Practical Hands-on Interface of Electrical Applications.

## PARTICIPATION FEE

**Rs. 9000/-**  
+18% GST  
**IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others**

**USD 110/-**  
**Overseas Participants**

**Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company**

## PARTICIPANT PROFILE

This Course is suitable for Mechanical and Electrical Maintenance Engineers, Electrical Technicians, & Middle management personnel involved in the functions of Production, Assembly Engg. Plant Maintenance from Machine Tools, Packaging, pharmaceuticals, Process industries, steel mills, cement industries, food industries, Hotels and malls, exhibition industries, business complex maintenance, aerospace industries and other General Engineering industries.

## FACULTY

**Mr. D. V. Shivanand**, BE Electrical graduate, an Entrepreneur having experience of 40 Years in the field of Manufacturing, Marketing, Design, Production, Project Execution of various Electrical Control Panels like & Professional Trainer from the Past 12 Years Conducted about 120 Training Sessions at Various Engineering Colleges & Industries

**Smt. Rajeshwari B. S.**, An Entrepreneur having experience of 35+ Years in the field of, Marketing, Design, Product Selection, of various Electrical Control Panels has also have working experience viz., SIEMENS AND Mall Software Switchgear Selection Software, UG Cable 11 KV HT XLPE Cables their Utilization, & Motors

**Mr. Basavesh Shetty S Doddabele**, Completed his MBA in UK. Has worked for 2 Years in Scottish and Southern Electric, London United Kingdom, Now Employee of Universal Power Controls having experience of 15+ Years Manufacturing of Electrical Control Panels Design, Erection & Commissioning of 1.25 MVA Transformer, Bus Bucting, Synchronizing Panels, Load Sharing Cum Load Management Control Panels, VariableFrequency Drive Panels, HT Metering Cubicle with LBS Load Break Switches, HT Metering Cubicle with VCB – Vacuum Circuit Breakers.

### For Registration Contact

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### Contact Address

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@ BIEC, 10th Mile, Tumkur Road, Madavara Post,  
Bangalore - 562 123  
Tel : 080-66246600  
Fax : 080-6624-6658



**REGISTRATION** : Prior registration for participation is necessary. Number of participants is limited and will be accepted on 'First Come First Serve' basis. A Certificate of participation will be issued to participants.

**Important Information** : Participation fee includes, course material, working lunch and tea / coffee. Interested companies are requested to register online by clicking on 'REGISTER' button and by filling up the nomination authority and participant's details in specified form.