

# Relays Applications



## Course description:

The quality of Electric Power is an ever growing concern today for both utility supplier and consumers. For that, all system components (Generators, Transformers, Transmission Lines Feeders, Motors, Bus bars, ..) have to be adequately protected to avoid major system disturbances, which may cause system instability or damage to equipment if faults on the system are not cleared within specified fault clearing times. Protection of the Power System requires an understanding of system faults and their detection, as well as their reliable safe isolation from the system. This course presents comprehensive and systematic descriptions of the concept and principles of application and operation of protection schemes applied for various power system elements. Many utilities need this course that studies the relay characteristics during faults and weak protection points in electrical power systems.

## Course Objective:

Upon the successful completion of this workshop, participants will be able to:

- Knowing the Fault Reasons in Electrical Networks and their effect on the electrical quantities.
- Understanding main Concepts of Protection equipment and its necessity in electrical System.
- How to make relay coordination for main and back-up protection relays on electrical network.
- How to find the cause of relay operation and verify if it is correct, falls or mal operation.
- How to protect the Power System due to Abnormal Operating Conditions

## Who should attend?

Engineers and Technicians from Electrical Power Utilities Companies, Electric Power Engineers, Supervisors, and Foreman involved in the Control, Operation, and Protection of Electric Power Systems.

## Training Duration:

The training course duration is **5 Days**

## Training Methodology:

1. Expert tutor input using power points.
2. Participants' discussion and involvement.
3. Case studies, Best practice examples.
4. Supportive comprehensive course manual enabling practical application and reinforcement.
5. Workshops Topics and Handouts, Power Point Presentation for each session.

## Course Certificate

**MSTC** certificate will be issued to all attendees completing minimum of 80% of the total tuition hours of the course.

## INTERNATIONAL SPEAKERS:

Delivering information through knowledge & experience obtained by renowned international speakers is one of the effective tools adopted by **MSTC**.

## ON SITE TRAINING:

- ✓ Customize the training program to your workplace.
- ✓ Conduct the training program when & where you need it.
- ✓ Save more than 50% by conducting **MSTC** training workshop at your premises.

To request full detailed outlines, instructor's profile or any information about registration, please don't hesitate to contact us at:

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