

POWER SYSTEM PROTECTIVE RELAYING



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TRAINING TITLE

POWER SYSTEM PROTECTIVE RELAYING

VENUE

Dubai, UAE

DURATION

5 Days

DATES

04 - 08 April 2021

PRICE

US\$4,000 per attendee including training material/handouts, morning/afternoon coffee breaks and Lunch buffet.

TRAINING INTRODUCTION

Protective Relaying of Electrical Equipment in power plants and other petro-chemical industries has always been a challenge to Electrical System Engineers. Reliability, Precision and speedy operation of Relays have the focus for minimizing the economic impact of isolation of faulty equipment.

Understanding the function of Relays and their settings will have an important reflections on the systems, plant and equipment stability which will add value to the whole activity.

Different application needs to employ the appropriate relays of specific type and functions for ensuring the reliability of system operation through pragmatic controls. Considerable attention must be given to the relay co-ordination which also exhibits the security of the systems and the processes.

Understanding the vital issues and problems associated with the relays is necessary and essential for the diagnosis, trouble shooting and achieving minimum maintenance needs for proper Protection Management of the entire Power System.

TRAINING OBJECTIVES

- To introduce the participants with protection philosophy for HT Motors, Generators, Feeders, Transformers, Bus bars & Switchyards.
- To familiarize the participants with different types of relays their applications, testing and maintenance.

- To upgrade the participants - understanding on the role of CT & PT in protective relaying.
- To provide skills, knowledge and understanding of the principle and practice of commissioning, testing and management of microprocessor based Digital / Numerical relays.
- To learn the method of fault level calculations and setting of relays.
- To learn the technology of Relay - Co - ordination.
- To provide the exposure in modern trends in Design and Management of Advanced Power System Protections.

TRAINING AUDIENCE

Electrical Engineers and technicians with responsibility for the operation, testing and maintenance of Power Generation, Distribution and Utilization Systems will be benefit largely from the workshop. R&D personnel and Power System Design Engineers are also recommended to attend the course.

TRAINING OUTLINE

- Theory of Protections
- CT & PT for Protective Relaying
- Methods of Discrimination
- Fault Level Calculations
- Testing of Relays
- Setting of Relays
- Fuses
- HT Motor Protections
- Generator Protections
- Feeder Protection
- Transformer Protections
- Busbar Protections
- Switchyard Protections
- Performance of Relays
- Relay Co-Ordination
- Operation & Maintenance of Microprocessor Based Protections
- Operation & Management of Digital Relays
- Modern Trend in Design & Management of Power System Protections

TRAINING CERTIFICATE

MAESTRO CONSULTANTS Certificate of Completion for delegates who attend and complete the training course

METHODOLOGY

Our courses are highly interactive, typically taking a case study approach that we have found to be an effective method of fostering discussions and transferring knowledge. Participants will learn by active participation during the program through the use of individual exercises, questionnaires, team exercises, training videos and discussions of “real life” issues in their organizations.

The material has been designed to enable delegates to apply all of the material with immediate effect back in the workplace.