



DDS

TRNG-DDS

PLATFORM OF PROTECTIVE RELAYS (DBF, DTP, SMOR, DTR, DFF, DMS, MOV)

WHAT WILL I LEARN FROM THIS COURSE?

This course addresses the training requirements of electrical engineers responsible for the design, installation and commissioning of the DDS series of Protection and Control devices. Through a combination of lectures and practical Lab exercises, the class will learn how to correctly configure, monitor, and troubleshoot DDS Relays.

PREREQUISITES

- Basic understanding of electrical circuits

WHO SHOULD ATTEND?

Electrical engineering personnel who are responsible for the configuring, installing, testing and maintenance of DDS Relays will benefit most from this course.

COURSE DURATION

3 Days

CEU CREDITS OFFERED

2.1 Credits

AGENDA

This class includes fully equipped Hands-On Lab exercises.

Day 1

Introduction

- DDS Platform – System overview
- Hardware review
- Mechanical installation and wiring
- DDS Family members for protection applications
 - SMOR, DBF, DFF, DTP
- DDS Family members for Protection and Control applications
 - DMS, DTR, MOV
- Options and ordering
- PC Software for all members of the family
 - GE_LOCAL
 - GE_INTRO
 - GE_OSC
- Local Human Machine Interface (MMI/HMI)
- Types of Files and Management
 - Settings & Configuration
 - Oscillography Files
 - Event Records

SMOR Feeder Relay

- General & Protection settings
 - TOC/IOC
 - Voltage elements
 - Recloser
- Relay configuration
- Factory default configuration analysis
- Fault Diagnostics
- Hands-On relay testing

Day 2

DBF Breaker Failure Relay

- General settings
- Protection settings
- Relay configuration
- Factory Default configuration analysis
- Fault Diagnostics
- Hands-On relay testing

DTP Transformer Differential Protection

- General settings
- Protection settings
 - Transformer configurations
- Factory Default configuration analysis
- Fault Diagnostics
- Hands-On relay testing

DFF Frequency/Load Shedding

- General settings
- Protection settings
 - Frequency
 - Rate of Change of Frequency
- Relay configuration
- System Diagnostics information
- Hands-On relay testing

Day 3

DMS Protection and Control IED

- General settings
- Protection settings
 - TOC/IOC
 - Voltage elements
 - Recloser
- Control Settings
 - Switchgear configuration
 - Operations configuration
 - Single Line Diagram design
 - Alarms Definition and Treatment
- Hands-On relay testing