



SR745

TRCD-SR745-C-S-1

TRANSFORMER PROTECTION INTERACTIVE LEARNING CD

INTERACTIVE LEARNING CD ADVANTAGE

The SR745 Transformer Protection Interactive Learning CD uses simulations, hands-on examples and practical applications to provide students with the same information and practical experience they would receive if they attended the in-class course. This CD allows Engineers, Electrical Personnel and Maintenance Staff to learn at their own pace and review the course material as often as they desire.

WHAT WILL I LEARN?

The SR745 Interactive Learning CD provides students with an understanding of the theoretical concepts they will require for protecting Power System Transformers using modern microprocessor based relays. The CD will then step the students through the installation of the SR745 Transformer Management Relay including wiring, configuring the relay using the EnerVista SR745 Setup Software, and demonstrating any procedures needed for performing maintenance tasks.



AGENDA

1 - Basic Protection Theory

- Power System components
- Power Generation
- Zones of Protection
- Primary Relaying
- Backup Relaying
- Types of Protection Relays
- Transducers (CTs, VTs, CVTs)
- Current Transformer selection for the SR745
- Breakers
- Transformer protection theory
- Flexlogic theory

2 - SR745 Hardware

- Installation and removal of the SR745 Transformer Management relay
- Front Panel features
- Display
- LEDs
- Keypad / Port
- Setpoint and Actual Value menu structures

3 - SR745 Wiring

- Digital Inputs
- Control Power
- AC Phase Current Inputs
- Voltage Inputs
- Failsafe / Non-failsafe
- Trip, Alarm, Auxiliary, and Self test Output Contacts
- Trip and Close Coil Monitoring
- Communications
- RTD Inputs
- IRIG-B

4 - SR745 Software

- Basic Relay Setup
 - Software configuration
 - System configuration
 - Actual Values
 - Event Recorder
- Protection
 - Percent Differential
 - Harmonic / Energization Inhibit
 - Instantaneous Differential
 - Phase Time / Instantaneous Overcurrent
 - Ground Time / Instantaneous Overcurrent
- Outputs
 - Output Contacts
 - Virtual Outputs
- System functions
 - Setpoint Files / Groups
 - Upgrading Firmware