



G60

TRNG-G60

GENERATOR MANAGEMENT RELAY

WHAT WILL I LEARN FROM THIS COURSE?

The protection engineer will gain an in-depth understanding of the major protective element algorithms for the G60. The review of a sample settings file in addition to Oscillography and Event Logs for specific faults will aid in a complete understanding of how to apply the G60 and how the G60 should perform.

PREREQUISITES

- UR Platform course
- A Degree in Electrical Engineering or completion of the Fundamentals of Modern Protective Relaying course
- UR Data Communications course an asset
- The Generator Protection Interactive Learning CD would be an asset

COURSE DURATION

1 Day

WHO SHOULD ATTEND?

This course is designed for protection engineering staff responsible for Generator protective relay selection and settings.

TUITION

\$ 600 US*

CEU CREDITS OFFERED

0.7 Credits

AGENDA

This class includes fully equipped Hands-On Lab exercises.

Day 1

- Basic Synchronous Generator theory
 - Generator grounding
 - Stator Differential protection
 - 100% Stator Ground Fault protection (64G, 27TN)
 - Timed Overcurrent
 - Voltage Restraint
 - Current Unbalance
 - Loss of Excitation
 - Volts/Hz
 - Reverse Power
 - Under/Overfrequency
 - Undervoltage
 - System Backup Distance
 - Accidental Energization
 - OverExcitation
- G60 Hardware overview
 - Specifications
 - Hardware configuration
- Wiring
 - Power supply
 - VT Inputs
 - CT Inputs
 - Digital I/O
 - Analog Inputs
 - IRIG-B
- G60 Protection element overview
- Creating a protection and control settings file for a typical Generator application
- Review of Event Records and Oscillography files for different Generator faults