



# ENERVISTA

TRNG-EV

## VIEWPOINT MONITORING SYSTEM INTEGRATION



### WHAT WILL I LEARN FROM THIS COURSE?

This course is designed to provide students with Hands-On experience in performing system integration using the EnerVista Viewpoint Monitoring Software. Class Labs will give students a chance to set up and configure all of the different types of communications network architectures that are available for protective Relays and meters and then proceed to learn how to create an entire monitoring and data collection system using the EnerVista Viewpoint Monitoring software.

### PREREQUISITES

- An basic understanding protection relays and meters
- Knowledge of Microsoft Windows® an asset

### COURSE DURATION

2 Days

### WHO SHOULD ATTEND?

Personnel responsible for setting up an entire Viewpoint Monitoring system to integrate Relays and meters into a substation or plant Monitoring and Control system will benefit from this course.

### TUITION

\$1,200 US\*

### CEU CREDITS OFFERED

1.4 Credits

### AGENDA

#### Day 1

- Data communication terminology
- Network topologies
- Serial RS232 networks
  - Hardware connections
  - Configuration
  - Lab: Configuring an RS232 network
- Serial RS485 Bus topology
  - Hardware specification
  - Configuration
  - Lab: Setting up and testing RS485 network
- Ethernet networks
  - LAN topologies
  - Switches and Routers
  - RJ45 Twisted Pair Copper Ethernet
  - Fiber Optic Ethernet
  - Lab: Configuring a Twisted Pair Ethernet network
  - Lab: Configuring a Fiber Optic Ethernet network
- Viewpoint Monitoring introduction
- Specifications
- System size and requirements
- Devices supported
- Device configuration
- Plug and Play instant Monitoring

#### Day 2

- Single Line Monitoring and Control diagrams
- Lab: Creating Single Line diagrams with the following functionality:
  - Importing of bitmaps and images
  - Status of Digital points
  - Configuring Breaker icons
  - Monitoring Analog signals
  - Configuring Graphical Gauges and Dials
  - Sending Control commands to devices
  - Creating navigation links to other screens
  - Customizing Plug-and-Play screens
- Annunciator alarming
- Annunciator specifications
- Lab: Configuring Annunciator Alarm Panel
  - Monitoring device data
  - Configuring alarm levels
  - Setting up Email notification
- Trending Reports specifications
- Lab: Configuring Trending reports
  - Selecting Device parameters
  - Configuring Chart Viewer
  - Archiving data
  - Exporting data to Microsoft Excel®
- Integrating non-GE Multilin devices
  - Adding a new device
  - Creating custom Memory Maps
- Formula Editor - Creating customized data points
- Security Functions
  - Configuration
  - Historical Event Log
- Automatic Waveform retrieval
- Automatic Event retrieval
- System Wide Sequence of Event Viewer
- Lab: Configuring and Testing automatic Event and Waveforms retrieval

\* Tuition shown is for scheduled courses.  
Contact us for custom and on-site pricing.