

IED Integration and Automation Training

Course: Using IEC 60870-5-101, 103 and 104 with the SMP Gateway Training
P-TTRN-0107-00

Duration: 1 day

Overview:

This training builds on the basic concepts introduced in the **Using the SMP Gateway Training**. Participants learn how the protocol is organized and the meaning of the different options offered by the protocol. Detailed hands-on examples, centered on relevant application problems, ensure that all participants become fully familiar with the usage of the protocol.

Recommended Audience:

The course is intended for engineers and technicians involved in installing, configuring, maintaining or operating substation automation and control systems, using the IEC 60870-5-101, 103 and 104 protocols.

Prerequisites:

Using the SMP Gateway Training is a prerequisite for this class.

Objectives:

At the end of the course, participants will be able to:

- Explain the organization of the IEC 60870-5-101, 103 and 104 protocols
- Interpret the IEC 60870-5-101, 103 and 104 device documentation supplied by device manufacturers
- Explain the significance of the different IEC 60870-5-101, 103 and 104 parameters
- Use the IEC 60870-5-101, 103 and 104 protocols to interrogate a device
- Use the IEC 60870-5-101, 103 and 104 protocols to supply data to a SCADA control center

Note that the main focus of the course is on the use of the IEC 60870-5-101, 103 and 104 protocols in real-world applications, not on the low-level implementation details.

Contents:

- Introduction
- IEC 60870-5-101, 103 and 104 protocol overview
- IEC 60870-5-101, 103 and 104 protocol concepts
- Using the IEC 60870-5-101, 103 and 104 protocol to interrogate a device
- Using the DNP3 protocol to supply data to the IEC 60870-5-101, 103 and 104 control center
- Additional features

Conditions:

- This course must be combined with Using SMP Gateway Training.
- Courses run from 8:30 AM to 4:30 PM, for one day.
- Courses can be held at Cooper Power Systems' Montreal City offices or at client facilities.
- Each participant will receive printed notes.
- Availability of specific field devices to be used for hands-on exercises must be arranged for ahead of time.
- For courses given at its offices, Cooper Power Systems provides the SMP Gateways and computers for the hands-on exercises.

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