



# IED Integration and Automation Training

 **COOPER** Power Systems



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## LEARN FROM THE EXPERTS

Cooper Power Systems, IED Integration and Automation Training, provides you with the knowledge necessary to get the most value out of your SMP Gateway, Yukon Visual T&D and Yukon IED Manager Suite products.

- Maximize your productivity by learning from our experts the best way to securely integrate all substation IEDs, regardless of device protocol and data format.
- Learn how to retrieve both operational and non-operational data from substation devices, gain improved real-time view of the operation of the power network and reduce the time required to process power events.
- Earn Continuing Education Units.

## WEB-BASED TRAINING: NOW AVAILABLE!

**Web-based training** is offered in our Internet classroom on a monthly basis. It is the perfect solution when it is not possible to attend a regular training class. Use the Internet to learn from one of our instructors in a virtual classroom. Please contact us to find the next available class. Follow along as the instructor goes through all the steps of configuring the SMP Gateway.

### **SMP Gateway Quick Start Web-Based Training, Basic Functions**

Web-based introduction to the SMP Gateway training. Covers principles of operation, setting-up the gateway, configuring master and slave protocols. Instructor-led web-based training. Three consecutive 50 minute sessions with 10 minute breaks.

**P-TTRN-1101 \$325**

### **SMP Gateway Quick Start Web-Based Training, Advanced Functions**

Web-based introduction to the SMP Gateway training. Covers advanced functions: automation functions, remote access, the annunciator, and security. Instructor-led web-based training. Two consecutive 50 minute sessions with one 10 minute break.

**P-TTRN-1102 \$250**

## CUSTOMER SITE TRAINING

**Classroom Training** can be offered at your own location and can be tailored to fit your needs. Train your entire staff on-site and reduce travel costs. If you are interested in our on-site training, please contact us to set up a custom training program to meet your requirements.



## SMP Gateway Training

### **Using the SMP Gateway Training. Basic SMP Gateway training**

Covers principles of operation, applications, setting-up the gateway, configuring master and slave protocols, remote access. Price per participant (minimum 3).

**P-TTRN-0101 \$1,060**

### **Using the DNP3 Protocol with the SMP Gateway Training**

Expands on the protocol knowledge presented in the "Using the SMP Gateway Training". Covers advanced functions and data types, event classes, configuring a master to poll a device, configuring a slave to process polling requests. One day. Must be combined with "Using the SMP Gateway Training". Price per participant (minimum 3).

**P-TTRN-0106 \$560**

### **Using IEC 60870-5-101, 103 and 104 with the SMP Gateway Training**

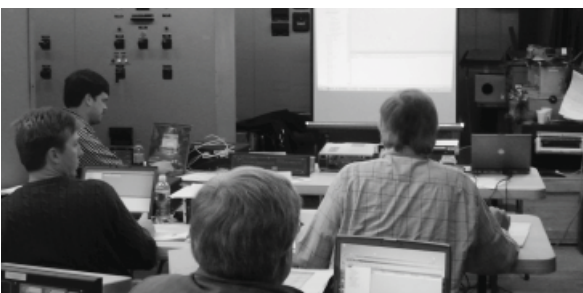
Expands on the protocol knowledge presented in the "Using the SMP Gateway Training". Covers advanced functions and data types, configuring a master to poll a device, configuring a slave to process polling requests. One day. Must be combined with "Using the SMP Gateway Training". Price per participant (minimum 3).

**P-TTRN-0107 \$560**

### **Using IEC 61850 with the SMP Gateway Training**

Using the SMP Gateway in an IEC 61850 environment. Covers introduction to IEC 61850, connecting to devices, setting up an IEC 61850 slave, GOOSE messaging. One day. Must be combined with "Using the SMP Gateway Training". Price per participant (minimum 3).

**P-TTRN-0111 \$560**



### Using the SMP Gateway Soft PLC

Implementing substation automation applications using the CoDeSys workbench, IEC 61131 languages and the SMP Gateway Soft PLC. "Using the SMP Gateway Training" is prerequisite. Two days. Price per participant (minimum 3).

**P-TTRN-0102 \$1,060**

Optionally, spend a day with one of our experienced product and application specialists and learn how to make the best use of use of you Cooper Power Systems products in your project.

### Project Assistance

Spend two days with one of our experienced product and application specialists and learn how to make the best use of use of you Cooper Power Systems products in your project. On-site technical assistance with the design or the implementation of your automation project. Must be combined with a minimum of two days of training. Price per day.

**P-TENG-0302 \$1,000**

## IEC 61850 Training

IEC 61850 is the new international substation automation standard. It models the data flow from the switchyard through the bay, the station and the network level to the control center. Cooper Power Systems IEC 61850 training introduces participants to the basic concepts of the standard and leads them through the steps of implementing an automation project. The training focuses on the use of IEC 61850 devices in real substation automation applications, not on the standard itself.

### Using IEC 61850

Using IEC 61850 for an automation project. Covers introduction to IEC 61850 concepts, basic networking, connecting to devices, setting up an IEC 61850 slave, GOOSE messaging. Two days. Price per participant (minimum 3).

**P-TTRN-0112 \$1,060**

## Yukon Visual T&D Training

Visual T&D is the perfect companion to the SMP Gateway. It provides an easy to set up solution for utilities that need a full-featured HMI for substations or small networks.

### Using Visual T&D Training

Basic Visual T&D training. Covers principles of operation, configuring the server and client applications, using the Explorer and Diagram Editor programs, using shape libraries to build single-line diagrams. Two days. Price per participant (minimum 3).

**P-TTRN-0201 \$1,060**

### Advanced Visual T&D Training

Expands on the "Using Visual T&D Training". Covers VBA scripting and the design of shape libraries. One day. Must be combined with "Using Visual T&D" training. Price per participant (minimum 3).

**P-TTRN-0202 \$560**

## Yukon IED Manager Suite Training

This training introduces participants to the architecture and functions of IMS. Participants learn how to set up the system, configure and use all system modules, and perform system maintenance.

### Setting up and Administering IED Manager Suite

Basic IMS training. Covers principles of operation, installing the software, configuring the system to connect IEDs and gateways, configuring security, remote access and event retrieval. Two days. Price per participant (minimum 3).

**P-TTRN-2001 \$1,060**

## Conditions

- Courses can be held at Cooper Power Systems' Montreal City offices or at customer facilities.
- For training held at customer location, instructor travel time is invoiced at a rate of \$125 per hour for a maximum of 8 hours per day. All other living and travel expenses (restaurants, hotel, rental car, etc.) are billed at cost plus 10%.
- For customers purchasing training for 6 participants at the regular price, we can provide training at the customer location and assume instructor travel and living expenses within North America.
- Additional participants are welcome, up to a total of 10 per class. Additional participants pay 50% of the regular training price.
- Once the instructor is on location, cost of additional classes is reduced by 20%.
- Courses run from 8:30 AM to 4:30 PM, for two consecutive days.
- Each student will receive printed notes and a CD with current software and documentation. Courses can be tuned to the special requirements of a group. Greater emphasis can be placed on functions, protocols and devices that are relevant to the group's particular applications.
- Availability of specific field devices to be used for hands-on exercises must be arranged for ahead of time.
- For classes given at one of its offices, Cooper Power Systems provides at least one computer and SMP Gateway per group of 2 participants for the hands-on exercises.
- For classes given at a customer site, the customer should provide an adequate training facility with a projector and white board.
- For classes given at a customer site, Cooper Power Systems will try to provide at least one SMP Gateway per group of 2 participants. The customer should provide at least one computer per group of two participants for hands-on exercises. Participants must have administrative privileges to install SMP Tools software.

**Cooper Power Systems**

2300 Badger Drive  
Waukesha, WI 53188

P: 877-CPS-INFO  
[www.cooperpower.com](http://www.cooperpower.com)  
[www.cooperpowereas.com](http://www.cooperpowereas.com)

**Montreal**

1290 St. Denis Street, Suite 300  
Montreal, Quebec  
Canada H2X 3J7

**Sales:**  
P: +1.514.845.6195  
[sales@cybectec.com](mailto:sales@cybectec.com)

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