

## IED Integration and Automation Training

**Course:** Advanced Visual T&D Training  
P-TTRN-0202-00

**Duration:** 1 day

**Overview:**

Participants are introduced to the design and implementation of Visual T&D shape libraries.

**Recommended Audience:**

The course is intended for engineers and technicians involved in the process of planning, specifying and implementing a substation's local and remote HMI functions.

**Prerequisites:**

**Using Visual T&D** is a prerequisite to this course.

Participants should be familiar with Visual Basic or a similar scripting language.

**Objectives:**

At the end the course participants will be able to create their own equipment libraries:

- Create reusable shapes designed to work together
- Create complex animated shapes
- Map shapes to data points using different strategies
- Control data points
- Process user and system events in a diagram
- Create diagrams with multiple pages

## Contents:

- Creating complex shapes
- Using animation effects
- Managing shape libraries
- Managing multiple pages
- The Visual Basic editor
- The Visual Basic Wizard
- The Visual T&D object model
- Event handlers
- Creating Visual Basic scripts
- Using Visual Basic forms
- Aliases and alias resolution techniques
- Managing Visual Basic scripts in shape libraries

## Conditions:

- This course must be combined with Using Visual T&D 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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