

Substation Networking Training

Course Description This training course is designed to provide attendees with a good understanding of how to network substations via Substation Explorer and how to use it effectively as a substation maintenance tool and Internet enabled HMI.

There are 4 main sections of the training course; each is outlined below:

Course Agenda **Section 1: System Overview**

Review and discuss system implementation and the benefits of implementing Substation Suite. They are having secure access to all your substation data, secure access to your IED/RTU configuration ports and the ability to remotely monitor your SCADA protocol communication links by using a remote version of the ASE2000 communication test set.

Section 2: Training/Presentation

In the training and presentation we will focus on :

- Installing the software onto your networked PC.
- Step you through building a Substation HMI, polling your specific IED.
- Networking the maintenance port of the IED(s) to all on the network.
- Networking the remote test set to the IED.

All of the above will be performed with the software applications below:

- Substation Explorer - an Internet enabled HMI package that provides alarm emails, annunciators, trending, single line diagrams and a web server.
- Substation Communicator - allows remote users to securely log into the maintenance ports of the substation IEDs and RTUs.
- Substation Network Monitor - in conjunction with the ASE2000 test set, the users will learn how to setup and enable Substation Network Monitor to monitor key communication links, using any of the protocols supported by the ASE2000 test set.

Section 3: Hands-on Examples

Once the hardware is installed, it will allow students to realize the POWER that a Substation PC can bring to your Network.

- POWER to quickly build a Substation HMI and the flexibility that it allows.
- POWER to remotely access maintenance ports to modify configurations, diagnose and commission your IED(s) in the Substation.
- POWER to remotely capture your DNP3 communication to SCADA for RTU and RTU to IED(s). This file can then be viewed using ASE 2000 software.

Section 4: Review / Student Specific Applications

Review: To cover any aspects that students would like to further discuss. It is an opportunity for students to do custom configurations and design specific applications, showing how Substation Suite can be applied to their existing system and how it could be utilized to assist in substation maintenance and monitoring.

**Attendance of the Substation Suite Hands-On Training is free for qualified UTILITY customers only.
Attend the session and receive a free 30-day trial version of the product.**

