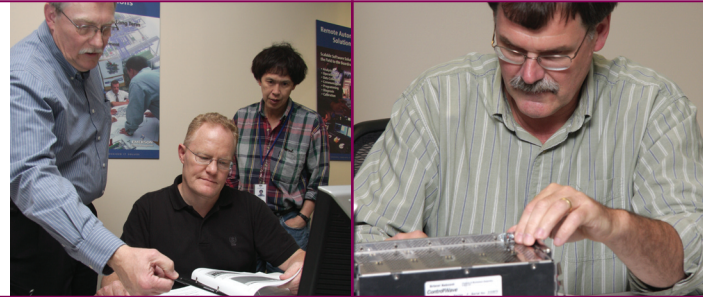


### COURSE DESCRIPTION

A hands-on course that covers the hardware, network configurations, and network tuning in a Bristol OpenBSI network of RTUs and measurement devices.

This course will equip you with the necessary knowledge and practices needed to optimize network communications. Learn how to troubleshoot and make necessary configuration adjustments using OpenBSI application programs, monitor live data, perform diagnostics and communication statistics.



*Ensuring customer confidence through knowledge of Bristol® and ControlWave® products and applications.*

### COURSE FEATURES

- Understand a Bristol Synchronous Asynchronous Protocol (BSAP) network
- Learn what configuration parameters affect data flow
- Understand the concept of BSAP polling and responses
- Understand the BSAP message structure
- Diagnose communications statistics
- Troubleshoot and tune a network for better data flow
- Configure a serial and IP network
- Learn tuning techniques for your BSAP network for effective modem and radio communications.
- Configure hardware communication ports

### WHO SHOULD ATTEND

- System Engineers who are responsible for installing and configuring the OpenBSI software for SCADA
- Anyone who wants to more thoroughly understand the ControlWave products

### PREREQUISITES

- Successful completion of the ControlWave Designer Fundamentals course
- Participants should have a working knowledge of their application/process
- Participants must be familiar with Windows 2000/ XP or later versions

### REGISTRATION

To register for this training course, complete the enrollment application on our website: [www.EmersonProcess.com/Remote](http://www.EmersonProcess.com/Remote).

For further information for classes in Watertown, Orlando, custom classes, or general training info:

Evelyn Bellefeuille  
Watertown, CT  
1-860-945-2343 or 1-800-395-5497 toll free within the United States

### COURSE AGENDA

#### DAY 1

- Intro to the OpenBSI Network
- BSAP Message Structure
- Message Response Types
- Polling Philosophy
- Understanding Polling, Timeouts, Buffers and Wait Packages
- Intro to NetView • Node Types
- BSAP Node Addressing • Building a BSAP Network
- Configuring BSAP Networks
- Configuring IP Networks • Using DataView

#### DAY 2

- Using the Communication Statistics Tool
- Using Flash Configuration Utility
- RTU Program Parameters that affect Peer to Peer Data Transfer
- Report By Exception • Alarm Router
- Intro to Harvester Collection Utility

#### DAY 3

- Tuning the Network
- Modem and Radio Configuration Tips
- Debugging Tools and Data Line Monitor
- Troubleshooting Techniques
- Hands-On Troubleshooting and Tuning