

Course Name: SCADA and Serial Concepts

Course Overview:

This is a customized course providing a foundation of SCADA, Supervisory Control and Data Acquisition, fundamentals and Serial concepts. The goal of the course is to provide an understanding into the world of serial concepts, applications, and equipment with proper context with applications and troubleshooting.

Course Length: 1 days

Who should attend?

- Field Service Technicians
- Field Engineers
- Managers/ Field Supervisors
- Design Engineers
- Electricians
- Managers or Supervisors

Prerequisites: None

Customizable Course: Yes



Course Content:

SCADA

- Concepts
- Applications
- Backhaul
 - Serial Connections
 - Analog
 - DDS (56K, 64K...)
 - T1 and FT1
 - Basic RF
 - Spread Spectrum

Communication Network

- Network Basics
- Terminology
- Testing Practices

Applications

Serial Concepts

- DTE/DCE
- Party
- Stop Bits
- Flow Control

RS-232

- Applications
- Distance
- Pin Outs
- Cabling
- DTE/DCE

RS-485

- Applications
- Distance
- Pin Outs
- Cabling
- DTE/DCE

Cabling and Hardware

- Null Modem
- Loopback
- Terminal Equipment



Terminal

- Terminal Emulation
- Provisioning
- Registers

Troubleshooting

- Protocol Analyzer

Hands-On Lab Activities

