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LabVIEW Datalogging and Supervisory Control Course

Overview:

The LabVIEW Datalogging and Supervisory Control course allows you to develop and manage high-channel-count applications using LabVIEW and the LabVIEW Datalogging and Supervisory Control (DSC) Module.

Audience:

- New LabVIEW DSC Module users
- Users and technical managers evaluating LabVIEW DSC Module in purchasing decisions
- Users developing high-channel-count applications

After attending this course you will be able to:

- Use LabVIEW to build high-channel-count applications
- Develop network applications for distributed control
- Implement security within LabVIEW applications
- Develop applications with automatic data logging, full alarm management, and event logging
- Develop a HMI (human machine interface) for your application
- Log and extract historical data

Prerequisites: LabVIEW Fundamentals (Basics I and II), or equivalent LabVIEW experience

Duration: Two Days

Ordering Information: 910519-XX (-01 NI Corporate or Branch, -11 Regional, -21 Onsite)



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Course Topics:

LabVIEW DSC Module Overview

- LabVIEW DSC Module features and capabilities
- Planning a LabVIEW DSC Module application
- Client server architecture
- Tag definition

Interfacing with Hardware

- LabVIEW DSC Module process for acquiring data
- Discussion of OPC (OLE for Process Control)
- Driver software configuration

Tag Configuration

- Tag types
- Using the tag configuration editor and tag monitor

LabVIEW DSC Module Programming Techniques

- Client/Server and event driven programming
- Using tags in your LabVIEW VIs
- HMI wizard and Panel wizard
- Controlling the LabVIEW DSC Module engine using tag attributes

Data Logging Events and Alarms

- Starting data logging and displaying and retrieving historical data

Data Logging Events and Alarms (continued)

- Enabling event logging and alarms
- Viewing events and alarms
- Responding to and acknowledging alarms

Security

- Account management and LabVIEW DSC Module tool access
- Setting default login behavior and using the security VIs
- Security for the SCF file

LabVIEW DSC Module Networking

- LabVIEW DSC Module architecture
- Testing network connections
- LabVIEW DSC Module server
- Working with application clients