



Niagara4 Technical Certification Program Student Guide

DAY 1

- Welcome
- Course Introduction
- Platforms & Stations
- Niagara4 Fundamentals
- Simple Logic: Hot Water Pump Control (Thermostatic)
- Simple Logic: Hot Water Pump Control (Freeze Protection)
- Simple Logic: Hot Water Pump Control (Simulating System Variables)
- Simple Logic: Hot Water Pump Control (Lead / Lag)
- Tagging and Searching for Components
- Custom Tag Dictionary
- Proportional only (gain-based, closed circuit) control Loop

DAY 2

- Review of Day 1 / Agenda for Day 2
- Alarm Notification
- History / Trend Data Collection
- Building a Simple Px View, Part 1 (Banner)
- Building a Simple Px View, Part 2 (Pump Control)
- Building a Simple Px View, Part 3 (Boiler Control)
- Simple Control Logic: Zone Temperature Control Loop
- Simple PX View: Zone Temp Control
- Network Architecture / Field Bus Integration
- Bacnet Integration
- Tagging with the Batch Editor
- Linking Proxy Points to other Niagara Objects

DAY 3

- Review of Day 2 / Agenda for Day 3
- Commissioning a JACE
- Customizing the Workbench Environment
- Modbus Integration (Optional for Lon oriented class)
- Lon Integration (Optional for Modbus oriented class)
- Security & User Administration
- Hierarchies
- Security Categories
- User Roles
- User Accounts

DAY 4

- Review of Day 3 / Agenda for Day 4
- Niagara Network Integration
- Configuring a Master Schedule
- Alarm Routing
- Alarm Portal
- Archiving History / Trend Data
- Dashboards
- Building a Custom Navigation Scheme
- Copying Stations
- AX to N4 Migration
- Preparations for Certification Test

Day 5

- Niagara4 Technical Certification Program Final Exam