

“Paragon”

(HMI/SCADA Course #T-PG1)

Course Duration: Four days (normally Tuesday through Friday)
8:30 through 4:30

Course Location: Ann Arbor, Michigan

Course Overview

This is an introductory course covering common aspects of setting up and running a simple Paragon application. It is a hands-on class - each attendee uses a computer. Emphasis is placed on simplifying the steps to communicating with hardware, designing strategies, building data collection, exporting databases and creating displays. The instructor draws on experience and current techniques to create a stimulating and memorable learning experience.

Objectives

At the conclusion of this course, the student will be able to:

- Load and configure Paragon Software
- Communicate to and troubleshoot I/O connections
- Build simple control strategies
- Collect, display and export trends and alarms
- Design effective, easy to use operator displays
- Set up and run a Paragon network
- Upgrade to later versions of Paragon
- Implement Screen and builder Security
- Send data to local and remote printers
- Set up barcodes and manipulate ASCII strings
- Create and run Recipes for batch processing

Prerequisites

There are no prerequisites for this course.

Audience

This course is recommended for anyone in any of the industries where there is a programming requirement for controlling, collecting, and displaying real-time data and events from processes.

Course Outline

The course is designed utilizing step-by-step hands-on labs while covering the following subjects (one computer per student.)

1. Paragon Introduction – Day One

- Introduction
- Overview of Nematron
- Introduction to Paragon
- Process I/O Basics
- Operator Interface Basics
- Using the Operator Interface Builder
- Log In and Access Security
- Display Security
- Child & Sibling Displays

2. Continuous Strategy – Day Two

- Review of Day One
- Introduction to Continuous Strategy
- Continuous Strategy Connections
- Proportional Integral Derivative (PID)
- Collecting Trend Data - Data Mgr
- Plotting Data Mgr Data on a Display
- Interactive Trends
- Process I/O - Communicating with Hardware

3. Documentation – Day Three

- Review of Day Two
- Documenting/Protecting Applications
- Data Mgr Alarm & Event Handling
- Process I/O & Continuous Strategy Alarms
- Displaying Alarms and Events
- Connection Aliasing in the Operator Interface
- Object & Color Palettes
- ASCII String Look-up Tables
- ASCII Device Input Output

4. Review and Special Issues – Day Four

- Review Process Input Output & Continuous Strategy
- Review Continuous Strategy & Data Manager
- Review Data Manager & Operator Interface
- Networking
- Special Continuous Strategy Issues - Recipes
- Animation
- ICC Frame