

# “Indusoft Web Studio Programming - Introduction”

## (HMI/SCADA #T-OV1)

**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 Indusoft 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 Indusoft Software
- Communicate to and troubleshoot I/O connections
- Build simple math strategies
- Collect, display and export trends and alarms
- Design effective, easy to use operator displays
- Set up and run a Indusoft network
- Implement Screen and Operation Security
- Configure Control Alarm and Event Management
- Testing and Debugging Applications
- Enable Windows CE Run-Time System
- Enable a Indusoft Web Server

### 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. Indusoft Introduction – Day One

- Introduction
- Overview of Nematron
- Application Development Steps
- Introduction to Indusoft
- Operator Display Basics
- Creating a Operator Display
- Tag Data Tables
  - Create Tags with Excel
- Device Communications Basics
- Symbol Library
- Testing and Debug Tools

#### 2. Calculations/Plotting/Security– Day Two

- Review of Day One
- Introduction to Math Sheets
- Derived Discrete/Analog Data
- Collecting Trend Data
- Plotting Data on a Display
- Log In and Access Security
- Display Security
- Display Navigation

#### 3. Documentation/Alarms/Data Logging – Day Three

- Review of Day Two
- Documenting/Protecting Applications
- Alarm & Event Handling
- Displaying Alarms and Events
- Math Functions - Optimization
- ODBC Data Logging/Retrieval
- Application Development Shortcuts
- OPC Client/Server Functions

#### 4. Application Implementation – Day Four

- Windows CE Target Run-Time
- Indusoft NTWebServer
- Indusoft CEWebServer
- Mobile HMI