

Learn how to setup, configure, and program Allen-Bradley Micro800 Nano Programmable Controllers using CCW in **Nano Basics**

Standard Course Lessons:

(Standard and Extended Versions)

Hardware

- Micro800 Controllers
- Selecting Components
- Hardware Unboxings
- Local Rockwell Representative

Software

- Downloading CCW Software
- Installing CCW on Windows 7, 10
- Update: Windows Patch Issues

Communications

- RSLinx Classic Configuration
- Setting up USB Comms
- Setting up Ethernet Comms
- Flashing Firmware

Programming

- Motor Control using Ladder Diagram routines.
- Part Sensing (LD) with Photo Eyes
- Machine Runtime using FBD
- Part Counting using FBD
- Performing Calculations using ST
- Exporting and Importing Programs

Advanced Course Lessons:

(Extended Version Only)

Analog and Expansion I/O

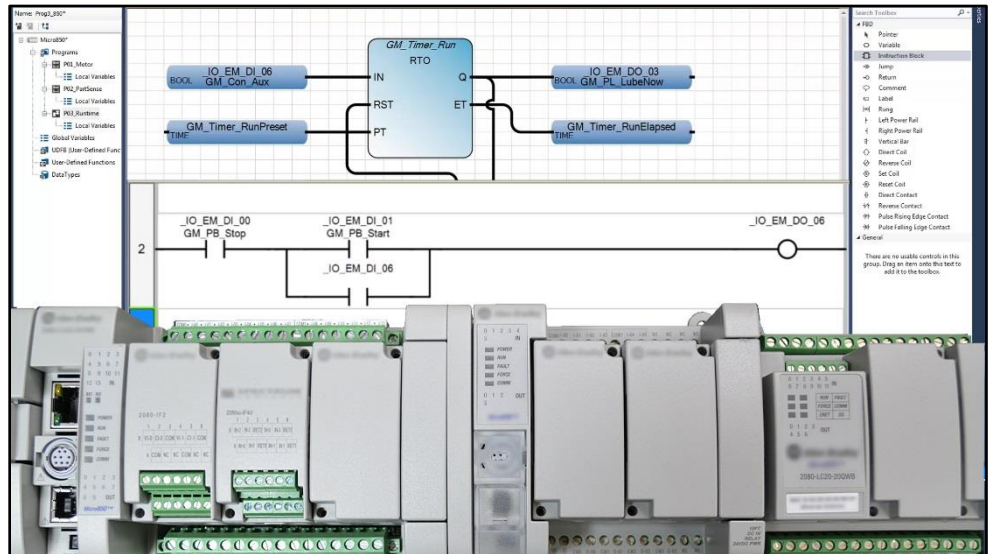
- Using and Scaling Analog Inputs
- Using and Scaling Analog Outputs
- Using Universal Analog Inputs
- Using Plugin and Expansion I/O
- Using Serial Plug-In with Modbus

Variable Frequency Drives

- Controlling VFDs over Modbus
- Setting up VFDs on Ethernet
- Controlling VFDs over Ethernet

Human Machine Interfaces

- Creating a PanelView 800 Motor Control Project



Nano Basics is designed for those students who have basic PLC knowledge and would like to learn how to setup, program, and troubleshoot the Allen-Bradley Micro800 line of Nano Programmable Controllers using Connected Components Workbench.

What students will learn:

- Understand the design of the Micro800 Family of Nano PLCs
- How to choose Micro800 components and configure a system
- How to get the free programming software and how it works
- How to setup Micro800 and RSLinx Ethernet and USB communications
- How to Flash Controller Firmware over Ethernet and USB
- How to create and test a Motor Control routine in Ladder Logic
- How to create and test a Part Sensing routine using Photo Eyes
- How to create and test a Machine Runtime routine in Function Block
- How to create and test a Part Counting routine in Function Block
- How to create and test a Mathematical Calculation routine in Structured Text
- How to Export and Import Micro800 Programs using CCW
- And much more in the Extended Edition!

What students need to complete hands-on exercises:

- Windows 7, 8, or 10 PC with an Ethernet and/or USB Port
- An internet connection to download the free programming software
- An Allen-Bradley Micro800 with USB or Ethernet communications ports

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