



BACK TO THE FUTURE for IC 



An introduction into the future for Industrial Automation SMART Motor Control devices and how to integrate them into your Future Projects.

INDUSTRIAL CONTROL PRODUCTS BASICS TRAINING CLASS

1 DAY CLASS IS \$350.00 per person. Includes Lunch, course material and certificate of completion

or

2 DAY CLASS IS \$500.00 per person. Includes Lunch, course material and certificate of completion

Core Product Basics Description

The Core Product Basics training program is taught locally by the Industrial Components Area Manager and Distributor Specialists. The class can be conducted over two days or spread out over several weeks. There is a traveling Hands-on-Lab to accompany the training materials.

The Objective of the “Core Products Basics” training is to introduce basic electricity, control terminology, symbols, catalogs, and core control products used on the plant floor. This school also explores the concept of a control system and the role each device plays in controlling and protecting motors.

Who should attend: This course is designed for new hires to the electrical industry or those unfamiliar with Allen-Bradley products.

This course is a prerequisite for the Rockwell Automation Milwaukee Control School.

What will be learned:

- Understand basic control terminology and symbology
- Introduction to the Industrial Control Catalogs
- Identification of bulletin numbers
- Basic operation of core products (Inputs, Logic & Outputs)
- Causes of motor overload and protection principles
- Preparation for Milwaukee Control School

The Core Products topics covered are briefly described below:

Basics of Circuitry	Relays
Basics Electricity	Signaling
IEC vs NEMA	Motor Control
Terminal Blocks	NEMA Starters
Push Buttons	IEC Starters
Sensors & Safety	Proximity Switches
Limit Switches	Overloads
Timing Circuits	Wiring Systems

1 day training class

Agenda	DAY 1
8:00	WELCOME & INTRODUCTION
8:15	BASICS OF ELECTRICITY & CIRCUITRY
8:30	BASICS OF CIRCUITRY
9:00	BREAK
10:15	BASICS OF MOTORS
10:30	NEMA VS IEC
10:45	NEMA VS IEC PUSH BUTTONS
11:30	NEMA POWER PRODUCTS
12:00	LUNCH
1:00	LAB 1
1:15	TERMINAL BLOCKS
1:30	RELAY & TIMERS
1:45	SENSOR BASIC
2:30	PROXIMITY SENSORS
3:00	BREAK
3:15	PHOTO ELECTRIC SENSORS
3:30	LIMIT SWITCHES
4:00	LAB 2
5:00	WRAP UP - END OF DAY 1 COMPLETION OF CLASS - CERTIFICATES

2 day training class

	DAY 1	DAY 2
8:00	WELCOME & INTRODUCTION	QUICK REVIEW OF DAY 1
8:15	HISTORY OF COMPANY	LIMIT SWITCHES
8:30	BASICS OF ELECTRICITY	PHOTO ELECTRIC SENSORS
9:00	BASICS OF CIRCUITRY	BREAK
10:15	BREAK	PROXIMITY SENSORS
10:30	MOTORS	
10:45	CATALOG INTRODUCTION	
11:30	NEMA VS IEC	SIGNALING PRODUCTS
12:00	LUNCH	LUNCH
1:00	LAB 1	LAB 3
1:15	NEMA PUSH BUTTONS	
1:30	IEC PUSH BUTTONS	
1:45	RELAY & TIMERS	LAB 4 WIRING THE REST OF LABS
2:30	NEMA POWER PRODUCTS	
3:00	BREAK	BREAK
3:15	TERMINAL BLOCKS	FINISH WIRING LABS
3:30	SENSOR BASIC	
4:00	LAB 2	DISASSEMBLE DEMOS AND PACKAGE UP
5:00	WRAP UP - END OF DAY 1	WRAP UP - END OF DAY 2 COMPLETION OF CLASS - CERTIFICATES

HANDS ON LABS

LETS "Walk The Talk!"

- **Your Three Lab Components**



**Operator Interface
Panel**



**Power Supply
&
Components
Station**



Fan Motor

CONTACT YOUR ROYAL WHOLESALE SALESMAN OR CALL AND SCHEDULE WITH
TOM CONSALVI IC CONTROL PRODUCTS MANAGER AT



TWO LOCATIONS SERVING THE INLAND EMPIRE

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