



# Siemens PLC Training

## TIA PORTAL LEVEL 1

This course is for electricians, engineers and programmers who are unfamiliar with Siemens Automation Programming. Students will learn basic programming and configuration of PLCs, HMIs and VFDs in the integrated TIA PORTAL environment. As well, troubleshooting and network design is covered.

As an option, we are offering starter kits for students to build up and learn as they go through the program. This option gives the student the advantage of access to equipment and software at a deeply discounted rate for future learning and projects.

### What you will learn

- Hardware configuration, communication and set up
- Memory addressing
- Program structure
- Basics of TIA Portal programming in FB
- Basic instructions
- Basic trouble shooting
- Interfacing with a VFD
- Network communications



### Who should attend

Integrators, Engineers, Programmers, Contractors,  
 Industrial Electricians  
 \*Basic programming knowledge required (on any platform)

### When

Next course intake, October 5-7, 2016  
 EBH Head Office ([Click here for directions](#))

### Cost of Course:

- Option 1, course only \$499
- Option 2, with starter kit 1 (4" HMI) \$1149
- Option 3, with starter kit 2 (7" HMI) \$1699

### Starter Kit Includes:

- S7-1200 PLC
- Starter Kit
- KTP 4" HMI (kit 1)
- Accessories
- KTP 7" HMI (kit 2)
- Software



**Please RSVP immediately to reserve your attendance. PO will be required two weeks in advance.**

**RSVP Information**  
 Email the following to [abenipal@ebhorsman.com](mailto:abenipal@ebhorsman.com)  
 or fax to: 778.545.3099

Company: \_\_\_\_\_

Attendee: \_\_\_\_\_

Postion: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Billing info (PO# or credit card)  
 \_\_\_\_\_  
 \_\_\_\_\_

Please indicate course option:  
 Option 1 (\$499)  
 Option 2 (\$1149)  
 Option 3 (\$1699)

Dietary Requirements  
 None       Vegan       Vegetarian

Other: \_\_\_\_\_





**E.B. Horsman & Son**  
*The Electrical Distributor of Choice!*

Helping Communities Thrive Since 1900

## TIA Portal PLC Training

### Day one

8:00 - 8:30	Introductions and course overview
8:30 - 9:00	The Programming environment
9:00 - 10:15	Hardware Configuration
10:15 - 10:30	Break
10:30 - 12:00	Introduction to programming
12:00 - 13:00	Lunch
13:00 - 14:30	Programming FC
14:30 - 14:45	Break
14:45 - 16:00	Programming FC (con't)

### Day two

8:00 - 8:30	Recap of last day and overview of today
8:30 - 10:15	Programming FB
10:15 - 10:30	Break
10:30 - 12:00	Programming FB (con't)
12:00 - 13:00	Lunch
13:00 - 14:30	Timers and Counters
14:30 - 14:45	Break
14:45 - 16:00	Timers and Counters (con't)

### Day three

8:00 - 8:30	Recap of last two days and overview of closing day
8:30 - 10:15	Basic Diagnostics
10:15 - 10:30	Break
10:30 - 12:00	Network Configuration
12:00 - 13:00	Lunch
13:00 - 14:30	Interfacing with a VFD
14:30 - 14:45	Break
14:45 - 15:30	Recap of course, questions and feedback

# SIEMENS



info@ebhorsman.com

888.HORSMAN



ebhorsman.com