

**TRAINING COURSE DESCRIPTIONS**

**FEE**  
**SCHEDULE**

<p><b>SIEMENS Introduction to Step 7 Programming</b></p> <p>This is a class for the programmer who will be using Siemens Step 7 for the first time. The course includes hardware overview, system architecture, and IEC 1131 program &amp; data structure. This class will be hands on with practical lab work. The course goal is to give the programmer a kick start in order to start to use this very flexible and powerful software tool.</p>	<p><b>\$900/ Student</b></p>
<p><b>SIEMENS S7-1200 Step 7 Basic, TIA Portal</b></p> <p>This is a class for the programmer who will be using a Siemens S7-1200 PLC and the TIA Portal – Step 7 Basic software for the first time. The course includes a hardware overview, system architecture, IEC 6-1131 programming and data structure and also creating a basic HMI Touch Panel interface. This class will be hands on with practical lab work. The course goal is to give the programmer an understanding of the S7-1200 PLC hardware and software platform to facilitate development of projects using this powerful compact PLC platform.</p>	<p><b>\$600 Student</b></p>
<p><b>SIEMENS PLC Based Motion</b></p> <p>This course provides an overview of using the Siemens S7 Programmable Controller for motion control in conjunction with the Sinamics S120 drive system. The first portion of the class covers configuring the Sinamics S120 for motion control in the drive, and interfacing a standard S7 PLC to control the drive. The second half of the class involves performing motion control in the PLC using the Technology CPU. This involves configuring the Sinamics drives for use with the Technology CPU, motion axis setup, and motion instruction programming in Ladder Logic.</p>	<p><b>\$600/ Student</b></p>
<p><b>Profibus Networking</b></p> <p>This course will include a general overview of network theory. It will then detail the design, configuration, and installation of both the Profibus DP and AS-Interface I/O networks</p>	<p><b>\$300/ Student</b></p>
<p><b>SIEMENS Introduction to Safety Integrated (Prerequisite Step7 Training or Experience)</b></p> <p>An introduction to doing machine safety inside the Siemens S7 PLC system. Includes an overview and discussion of the necessary hardware architecture/modules/cpu's etc. Also includes training on the use of S7 distributed safety programming.</p>	<p><b>\$600/ Student</b></p>

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<p><b>SIEMENS Introduction to Drives</b></p> <p>This course will provide an overview of Siemens General Purpose AC Drive Offering , a detailed review of drive parameterization and application, use of Siemens Starter Drive Configuration Software, and drive installation considerations</p>	<p><b>\$600/ Student</b></p>
<p><b>Introduction to Ethernet/Profinet</b></p> <p>This course will include a general overview of networking architecture, including topologies, media, media access methods and network protocols. Ethernet infrastructure components ( cabling, switches, etc. ) will be covered in detail, as well as Ethernet protocols. Setup, configuration, and use of Profinet will also be covered.</p>	<p><b>\$300/ Student</b></p>
<p><b>Introduction to WinCC Flexible</b></p> <p>This course will offer an introduction to WinCC Flexible HMI configuration software. Topics include communications, tag configuration, screen development, alarming, and recipe management. This course will be useful to previous ProTool users as well as those that have no experience with ProTool.</p>	<p><b>\$600/ Student</b></p>
<p><b>Custom Courses:</b></p> <p>Custom courses available upon request. Maintenance courses scheduled to meet individual customer requirements.</p>	<p><b>Call: 315-253-9721 for pricing!</b></p>
<p><b>Notes:</b></p> <p>A: All classes start at 8:30 AM and run until 4:00 PM with an included lunch.          B: A Purchase Order is required for registration          C: \$50 Invoice will be issued for cancellation with less than two business days notice or no-shows.</p>	

**TECHNICAL SEMINAR DESCRIPTIONS**

**FEE**  
**SCHEDULE**

\*There are no seminars at this time, please check back periodically for new listings.

**TRAINING & SEMINAR DATES:**

**JANUARY**

S	M	T	W	R	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

**FEBRUARY**

S	M	T	W	R	F	S
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**MARCH**

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25	26	27	28	29	30	31

**TRAINING COURSES:**

Siemens Introduction to Step 7 Programming

Siemens S7-1200 Step 7 Basic, TIA Portal

Siemens PLC Based Motion

Profibus Networking

Safety Integrated

Introduction to Siemens Drives

Introduction to Ethernet/Profinet

Introduction to WinCC Flexible

APRIL						
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MAY						
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JUNE						
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24	25	26	27	28	29	30

**TRAINING COURSES:**

Siemens Introduction to Step 7  
Programming

Siemens S7-1200 Step 7 Basic,  
TIA Portal

Siemens PLC Based Motion

Profibus Networking

Safety Integrated

Introduction to Siemens Drives

Introduction to  
Ethernet/Profinet

Introduction to WinCC Flexible

<b>JULY</b>						
<b>S</b>	<b>M</b>	<b>T</b>	<b>W</b>	<b>R</b>	<b>F</b>	<b>S</b>
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<b>AUGUST</b>						
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<b>SEPTEMBER</b>						
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**Siemens Introduction to Step 7 Programming**

**Siemens S7-1200 Step 7 Basic, TIA Portal**

**Siemens PLC Based Motion**

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**Introduction to Siemens Drives**

**Introduction to Ethernet/Profinet**

**Introduction to WinCC Flexible**

<b>OCTOBER</b>						
<b>S</b>	<b>M</b>	<b>T</b>	<b>W</b>	<b>R</b>	<b>F</b>	<b>S</b>
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<b>NOVEMBER</b>						
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<b>DECEMBER</b>						
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23	24	25	26	27	28	29
30	31					

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**Siemens Introduction to Step 7 Programming**

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