A Complete PLC Programming Course

Finally, a PLC course developed for real learning by a real PLC programmer with real PLC experience in BOTH programming and teaching PLCs.

This is truly the first video course designed with the “real-world student” in mind. It is not a course you will sleep through. It is not boring. There is no techno-talk. Plain English is how we talk and that’s how we learn best!

The course starts from the very beginning. There are no prerequisites. Gradually you’re guided through the important concepts... step-by-step. Where possible real world examples are used to further emphasize the topic.

You’ll get a complete Beginners PLC course taught in a seminar format. The complete set of 5 dvds has been designed purely with the student in mind.

Based on years of real-world factory automation experience coupled with extensive training, the course leader guides you through the functions of PLCs.

Common beginner mistakes are pointed out along with ways to avoid them. Benefit from our experience and put it to real use.

You’ll learn PLC programming in only days from this course. Gradually practice while you learn and soon you’ll be programming like a pro before you know it.

Train at your convenience and your own pace. Train multiple employees one section at a time and experience only limited downtime.

Designed for maintenance and engineering personnel, technicians and students alike. After completing the video course you will understand and be able to program PLCs.
All Important Topics are Included...

Section 1
What is a PLC?
What is a PLC?  00:00 – 11:47
History of the PLC  11:53 – 28:43
Parts of the PLC  28:52 – 42:30
PLC “Internals”  42:40 – 55:09

Learn in your spare time to spend quality time with family or friends

• Understand what scanning is
• Discover how the PLC functions
• Learn what to do for a super-fast assembly line
• See why we need to understand to count like a PLC
• Really understand number systems
• Get tricks to learning math without a ‘math degree’

"I forgot everything since I haven’t used it for so long"

Section 2
PLC Basics / Number Systems
How a PLC Works  00:00 – 11:32
Seeing Fast Inputs  11:42 – 14:33
Number Systems  14:43 – 20:01
Binary  20:10 – 30:53
Signed Binary  31:01 – 32:43
2’s Complement  32:53 – 36:19
Octal  36:30 – 41:08
Hexadecimal  41:17 – 46:01
BCD  46:10 – 48:53

Study in the privacy of your own home/office
### Section 3
**Logic Basics**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addressing</td>
<td>00:00 – 07:40</td>
</tr>
<tr>
<td>AND Logic</td>
<td>07:49 – 12:27</td>
</tr>
<tr>
<td>OR Logic</td>
<td>12:37 – 15:19</td>
</tr>
<tr>
<td>NOT Logic</td>
<td>15:28 – 19:13</td>
</tr>
<tr>
<td>EXOR Logic</td>
<td>19:22 – 23:43</td>
</tr>
<tr>
<td>Relays</td>
<td>23:53 – 29:56</td>
</tr>
<tr>
<td>Contacts</td>
<td>30:06 – 36:01</td>
</tr>
<tr>
<td>Coils</td>
<td>36:11 – 43:46</td>
</tr>
<tr>
<td>Logic Summary</td>
<td>43:55 – 46:52</td>
</tr>
</tbody>
</table>

**No need to travel to a class... it comes to you!**

- Learn where the various inputs/outputs are
- Understand the four basic pieces of logic
- See what a relay does and why we need to know it
- Discover how we use relays in our PLC programs
- See the TIP on avoiding the 'double coil syndrome'

### Section 4
**Coil Control**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
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<tbody>
<tr>
<td>Start/Stop Example</td>
<td>00:00 – 10:17</td>
</tr>
<tr>
<td>One-Shots</td>
<td>10:24 – 23:06</td>
</tr>
<tr>
<td>Latching</td>
<td>23:16 – 36:54</td>
</tr>
</tbody>
</table>

**Ask yourself these questions:**

- Can you afford the high $$$’s
- Do you 'really' have time to attend the class? How about the homework?
- Who is the instructor? Does he/she have any real-world experience or just textbook knowledge?
- Is the teacher’s experience recent? Times HAVE changed...
- How many students are in the class?
- Is the class "PLC brand specific"? What if the job you’re applying for won’t be using that brand?
- Will the teacher just read from a book?

**Are you sure?????**
Section 5
Counters and Timers
Counter Basics 00:00 – 18:16
High-speed Counters 18:22 – 22:59
On-Delay Timers 23:09 – 29:27
Off-Delay Timers 29:36 – 39:57

- Understand the different types of counters
- Learn when to use a high-speed counter
- See when fast isn’t so fast
- Learn about the many kinds of timers and when to use each… and why
- Understand what kind of delay you really need

“That manufacturers seminar was a badly disguised sales pitch for their PLC. I wasted time and money”

Section 6
Application Instructions

- Learn the main purpose of master controls
- See why master controls shouldn’t be used for safety
- Understand dividing a program into blocks
- Learn about creating a program within a program
- Discover moving data through memory

Master Controls 00:00 – 04:39
Master Control “Blocking” 04:49 – 09:20
Logic Jumps 09:28 – 14:51
Subroutines 15:01 – 21:35
Shift Registers 21:44 – 32:12
A Shift Register Application 32:22 – 39:40

Section 7
Data Manipulation

Data Manipulation 00:00 – 05:52
Moving Data 06:01 – 08:46
Data Example 08:55 – 16:38
Masking Data 16:45 – 23:34
Data Comparison 23:42 – 27:27
Comparison Blocks 27:36 – 30:03
Compare Examples 30:11 – 33:43
Changing Data 33:51 – 39:55
Math 40:04 – 46:06

“I don’t even remember what I learned at the last PLC class I took.”

- See how to make the data be what you need it to be
- Learn how to transfer data from location to location
- Discover the true meaning of masking
- Realize how to see if data matches what is required
- Learn about modifying the memory
- Experience using math on data… useful math

Train multiple employees for years to come
PLCs.net – ‘Plain English’ PLC Training Course

Section 8
Wiring

- See conventional vs electron current flow
- Learn about common transistor types
- Learn the secret to understanding NPN/PNP
- Discover how to use the correct input type
- Understand how to wire everything together
- Learn to choose the correct output type

Current Flow  00:00 – 05:22
NPN vs. PNP  05:30 – 13:22
Sinking Inputs  22:31 – 28:09
Connections  28:16 – 31:12
Relay Outputs  31:20 – 35:38
Transistor Outputs  35:45 – 37:36

How much will YOUR PLC training cost?

If you plan on taking a local community college course be prepared to spend $1000’s... plus many 'free' hours away from family and friends.

Want to take that PLC manufacturers seminar? (And you thought their programming software was expensive... wait till you see their seminar cost)

If you plan on buying a video course from some specialty store or industrial trade association be prepared to pay about the same.

Some examples:
- 10 videos for $1997
- 1 video with hardware for $795
- 2 videos for $495 claiming to cover 'everything'?
- 5 videos for $1595

Experience a More Effective Time and Cost Saving Training Solution Today

Experience our PLC video training series for yourself and at the same time enjoy a super low cost. Currently we are offering this PLC video training series at a special introductory price of $379. Yes, just $379.

You will not find a better deal on a live class, seminar or video training series available today. But don't just take our word for it. Shop around. Compare prices and features. And when you're finished looking, we'll still be here to happily receive your order.
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Remember that you’ll get the complete set of 5 training dvds covering:

- What a PLC is used for
- The history of the PLC
- Basic operation
- Number systems
- Logic Basics
- Relays
- Coil Control
- Counters
- Timers
- Application instructions
- Data Manipulation
- Wiring
- And much more...

All for the special low introductory cost of just $379

You’ll learn all you need to be well on your way to programming like a pro. We’ll supply the training and you supply the practice.

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PLCs.net, LLC
3 Windsor Garden Dr
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