

PRO300 Programmable Logic Controllers

Practical Knowledge & Hands-On Experience

◆ Program Description

This in-depth course provides knowledge and skills on electrical safety and the installation, programming and troubleshooting of PLC hardware and software. The information presented will enable you to effectively install, program and troubleshoot PLC hardware and input/output (I/O) circuits. More than 250 topics are covered and 30 job activities provide hands-on experience using the Hale Automation Trainer.

Exercises reinforce safety and demonstrate the operation of analog and digital I/O modules, processors, power supplies and programmable logic.

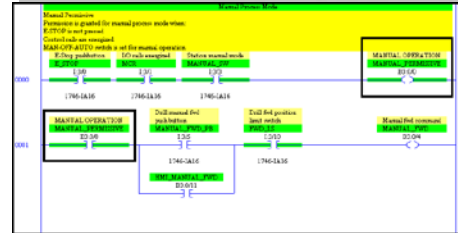
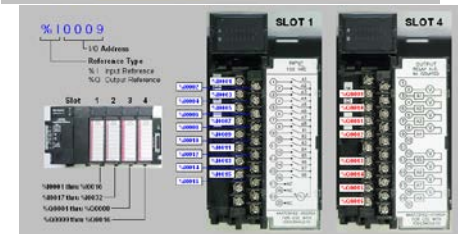
Online web based lessons allow learning at the individual's pace and available when it is convenient for the trainee. Over 850 images illustrate PLC components and operation.

◆ Prerequisites

- Familiar with site specific safety protocols
- ELC300 *Electrical Controls, Connection & Ladder Logic* course or equivalent experience
- Experience using Microsoft Windows

◆ Availability

- Web based training available 24/7 🕒 ~40 Hours
- Training hardware used for hands on activities are available for purchase 🕒 ~32 Hours



Images from Hale eLearning training course

◆ What you will be able to do

1. Explain and follow appropriate safety procedures for working on electrical circuits controlled by a PLC.
2. Install, program, and troubleshoot PLC hardware and software.
3. Draw and interpret PLC wiring and ladder logic diagrams.
4. Connect control components to a PLC and write programs to control their operation.
5. Use diagnostics to locate a defective component in a PLC.

👤 Hands-On Job Activities

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|-------------------------------------------------------|--------------------------------|
| 1. Working Safely with Electricity | 15. Creating A CCW Project |
| 2. Manual, Semi-Automatic & Automatic Machine Control | 16. Digital Input Circuits |
| 3. Trainer Familiarization | 17. Analog Input Circuits |
| 4. Analog I/O Devices | 18. Digital Output Circuits |
| 5. Digital I/O Devices | 19. Analog Output Circuits |
| 6. ESD Precautions | 20. Computer Number Systems |
| 7. Micro800 PLC Family | 21. Updating PLC Firmware |
| 8. Micro850 Familiarization | 22. Processor Operations |
| 9. Power Supply Calculations | 23. Ladder Diagram (LD) Editor |
| 10. Power & Safety Circuits | 24. Motor Control Projects |
| 11. Installing CCW | 25. Timer Instructions |
| 12. RSLinx Software | 26. Counter Instructions |
| 13. Introduction to CCW | 27. Documenting a Project |
| 14. Using Help & Support | 28. Password Protection |



Hale Automation Trainer with Allen-Bradley Micro850™ Programmable Controller. Rockwell Automation's Connected Components Workbench (CCW) programming software is available free of charge from www.rockwellautomation.com

For more information, contact

HOT-Training is the Exclusive distributor and sole source provider of the Hale Instructional Training Products.



Hands On Technical Training

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