

# Advanced PLC Training System (Rockwell Automation)

LabVolt Series 3355

**FESTO**



## Programming High-End Rockwell PLCs and Touchscreen

Automated production lines can be quite complex to design and assemble, but there is even more to consider. The PLCs that are at the center of all the tasks must be programmed to ensure safe and reliable operation.

Programming a PLC efficiently requires a strong familiarity with the specifics of the programming environment and languages.

This is exactly the purpose of the Advanced PLC Training System with high-end products from Rockwell Automation. Students learn how to establish communication, program, and transfer projects to a PLC and a touchscreen.

## Benefits

- The system uses Rockwell software and hardware that are used in actual factories.
- Comprehensive curriculum with hands-on exercises accompanies each system.
- The system is mounted in a rugged suitcase with casters.
- The system can be used alone or in conjunction with existing PLC applications.
- Communication between devices is accomplished using either an industrial Ethernet switch, SysLink connectors, or 2-mm jacks.

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### Learning objectives

This training system allows students to acquire hands-on experience with industrial control equipment. Realistic examples are used to motivate students. These examples are displayed on the graphic terminal, and correspond to real PLC applications that can be interfaced with the trainer.<sup>1</sup>

The provided curriculum promotes resourcefulness in the achievement of the learning objectives:

- Familiarization with Studio 5000 and FactoryTalk View Studio<sup>2</sup>
- Using standard PLC instructions
- Programming in four different IEC 61131 languages with focus on ladder logic
- Designing human-machine interfaces
- Troubleshooting

### Inside the suitcase

The system comprises industrial components of the latest technology:

- CompactLogix 5370 controller (1769-L24ER-QBFC1B)
- PanelView Plus 7 graphic terminal
- Stratix 2000 industrial Ethernet switch

The following inputs and outputs are accessible from the front panel using 2-mm test leads:

- 16 digital inputs
- 16 digital outputs
- 4 universal analog inputs
- 2 configurable analog outputs
- 3 high-speed counters
- 2 high-speed counter output points

The following controls and lights can also be connected:

- 2 NO push-buttons
- 2 NC push-buttons
- 4 toggle switches
- 2 potentiometers
- 8 indicator lamps

Eight switches allow the addition of electrical faults during troubleshooting exercises.



<sup>1</sup> PLC applications are sold separately.

<sup>2</sup> Studio 5000 and FactoryTalk View software are sold separately.