

TECHSKILLS INTERNATIONAL

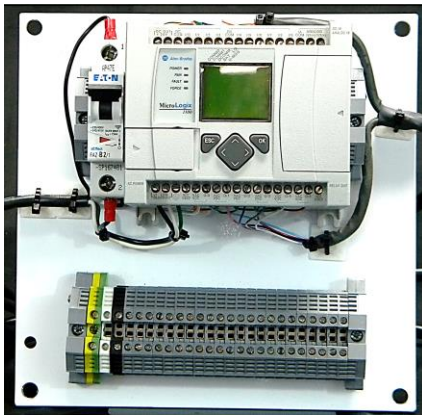
The **Leading Edge** in Authentic Industrial Controls Training

**ELECTRIC MOTOR CONTROL • HVAC CONTROLS • FLUID POWER CONTROLS •
MECHANICAL CONTROLS • AUTOMATION & DIGITAL CONTROLS**

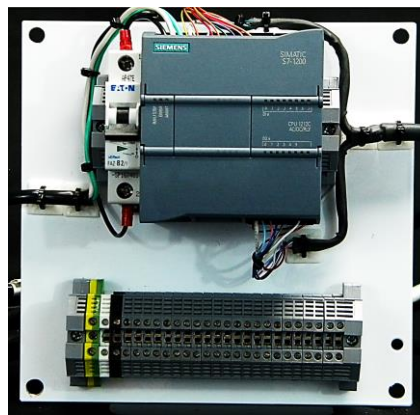
LOGIC CIRCUITS AND PROGRAMMABLE LOGIC CONTROLLERS for INDUSTRIAL CONTROL TECHNICIANS

The TSI **Logic Circuits and Programmable Logic Controllers for Industrial Control Technicians** course consists of 6 drawout units that can be installed in the TSI 111015A001 Connect & Operate Industrial Motor Control enclosure.

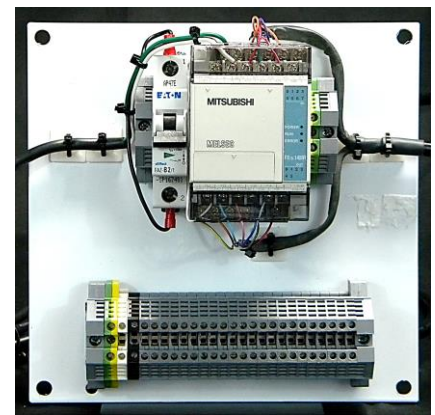
The drawout units illustrated below provide competency-based, hands-on training on PLC theory, programming, operation, testing, and troubleshooting.



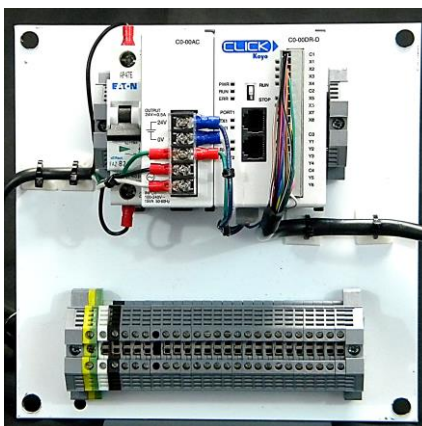
**ALLEN BRADLEY
MICROLOGIX 1100**



**SEIMENS
S7 1200**



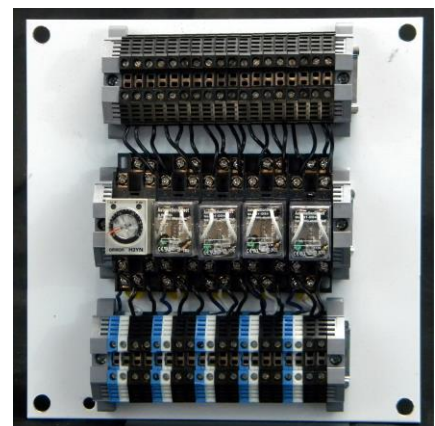
**MITSUBISHI MEL/SEC
FX-1S**



**AUTOMATION DIRECT
CLICK**



**ALLEN BRADLEY
LOGIC MODULE**



**TECHSKILLS INT'L
RELAY/LADDER LOGIC**

TECH*S***SKILLS INTERNATIONAL**

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THE TSI LEADING EDGE ADVANTAGES

1. TSI e-Learning courseware presents technical information on operating theory, components and associated hardware for installing, testing, and troubleshooting the actual components in plant electrical control systems.

Testing and troubleshooting procedures are driven by authentic job Work Orders. TSI e-learning content can be delivered via standard school/industrial computer systems and all current tablet formats.

2. TSI is the leader in providing authentic training solutions. Effective training must duplicate the equipment, tools, technical job requirements, and environment the student will encounter on the job. This didactic ensures the student transitions quickly from the classroom to the plant floor.

3. TSI E-learning courseware presents technical information including; operating theory, installation, testing, and troubleshooting industrial electro-pneumatic systems. Connecting, testing, and troubleshooting procedures are driven by authentic Job Work Orders. TSI E-learning content is deliverable via print media, standard school/industrial computer networks and all current tablet formats.

E-LEARNING COURSE CONTENT

1. Introduction to Programmable Logic Control
2. Connect and Operate Relay Logic Circuits
3. Connect and Operate Logic Module Circuits
4. Draw and read PLC ladder diagrams
5. Interconvert Binary, Binary Coded Decimal And Decimal Numbers
6. Apply Boolean Logic
7. Connect and Operate Relay Logic Circuits
8. Connect, Program and Operate a Logic Module
9. Connect PLC Modules
10. Connect Input Devices
11. Connect Output Devices
12. Program a PLC
13. Program a PLC with a Personal Computer
14. Debug and Troubleshoot a PLC
15. Perform Preventive Maintenance
16. PLC Automation Applications

4. TSI training hardware provides a safe learning environment for the student. TSI training systems are UL Listed and meet the requirements of:

- UL 508A
- NEC 409
- NFPA 70
- OSHA

5. Certification of performance to the recognized standards above is available upon completion of this course.

PLCS FOR INDUSTRIAL CONTROL TECHNICIANS