

SKILL CERTIFICATE IN PROGRAMMABLE LOGIC CONTROLLERS

Students completing this certificate will learn how to wire, program, and troubleshoot a PLC hardware system. Converting relay logic circuits to equivalent PLC ladder logic programs. Using a digital multimeter to troubleshoot control circuits. Using programming software to program and troubleshoot a PLC application. Wiring I/O circuits for control devices and configuration of I/O modules. Basic ladder logic programming instructions (bit-level instructions, counters, timers).

Program Outcomes

- Possess entry-level skills as a programmable logic controller technician to include program entry and troubleshooting skills.

Career Opportunities

Upon successful completion of this certificate, students will be prepared for employment in the following jobs: entry-level employment as a PLC technician.

Program Requirements

Code	Title	Units
REQUIRED CERTIFICATE COURSES		
ITEC 270	Programmable Logic Controllers for Technicians	2
=		
TOTAL		2

The Skill Certificate requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.