

A-650

ALLEN-BRADLEY PLC-5/Level Three - Analog I/O and PID Maintenance & Troubleshooting

Course Description	This 32-hour course is designed to provide engineering and maintenance personnel with a functional understanding of Analog I/O hardware and software and operation of the PID instruction in the Allen-Bradley PLC-5 programmable logic controller. The course consists of hands-on experience utilizing the 1771-IFE, 1771-OFE analog modules and the PLC-5 Programmable Controller.
Topical Outline	<ul style="list-style-type: none">▪ Analog Concepts▪ Intelligent Module Overview<ul style="list-style-type: none">- 1771-IFE Analog Input Module- 1771-IL Isolated Analog Input Module- 1771-OFE Analog Output Module▪ Analog I/O Configuration and Installation▪ Analog Calibration and Troubleshooting▪ Block Transfer Programming▪ PID Control Concepts▪ PID Parameters and Configuration▪ PID Operation and Troubleshooting▪ Overview: N Series Analog I/O Modules
Course Hardware	Allen-Bradley PLC-5, 1771-IFE, 1771-OFE and N Series Analog Modules.
Prerequisites	Students should have successfully completed Intellect course A-510 (PLC-5 Level One) and Intellect course A-520 (PLC-5 Level Two) or have a working knowledge equivalent to the course descriptions. This course is not intended for students who do not have the background described above.
Course Length	32 hours
CEU's	3.0
Objectives	Persons successfully completing this course will be able to: <ul style="list-style-type: none">▪ Install and configure analog I/O modules▪ Access and interpret diagnostic information▪ Troubleshoot and calibrate analog I/O modules▪ Understand the use of block transfer instructions▪ Troubleshoot and tune PID loops
NOTE	The training program includes application projects utilizing industrial hardware and simulators.