

## PLC Course:

*A programmable logic controller (PLC) or programmable controller is a digital computer used for automation of electromechanical processes, such as control of machinery on factory assembly lines, amusement rides, or lighting fixtures. PLCs are used in many industries and machines, such as packaging and semiconductor machines. Unlike general-purpose computers, the PLC is designed for multiple inputs and output arrangements, extended temperature ranges, immunity to electrical noise, and resistance to vibration and impact. Programs to control machine operation are typically stored in battery-backed or non-volatile memory. A PLC is an example of a real time system since output results must be produced in response to input conditions within a bounded time, otherwise unintended operation will result.*



This course will begin by examining the system components in a SLC 500 modular PLC system and the AB SLC 500 family PLC's. Then, the course will explore the programmable controller fundamentals and system installation as well as programming software. The course will conclude with lessons on timers and counters, as well as shift registers and sequences.