

PLC I  
SCOTT COUNTY SERIES  
ELECTRICAL PROGRAM COURSE SYLLABUS



Total Time:	33 Hours
Schedule:	11 Three-Hour Classes
Textbook:	<u>Industrial Motor Control</u> , 7 <sup>th</sup> Ed, Stephen L. Herman, ISBN 978-1-133-69180-8 (Required)
Course Description:	The Maintenance Technician will gain a fundamental understanding of Brick and Rack type Programmable Logic Controllers. PLC hardware, software and ladder logic configurations will be studied through presentation, written exercises and hands-on labs. This training presents PLC's in a fashion where the concepts may be applied universally to all brand PLC hardware and software installations.
Course Learning Outcome:	The Technician will gain an understanding of PLC operation and how the PLC interacts with real world input and output devices.
Course Learning Objective:	Following oral and written instructions, the student will demonstrate an understanding of the following: <ol style="list-style-type: none"><li>1) Brick and Rack type PLC hardware installations</li><li>2) Industrial Boolean and Ladder Logic</li><li>3) Universal PLC command set</li><li>4) Standards applicable to industrial PLC applications</li><li>5) Working with Sinking and Sourcing I/O devices</li><li>6) Basic PLC system troubleshooting</li></ol>
Evaluation Method:	The following evaluation methods will be used in the classroom: <ol style="list-style-type: none"><li>1) Attendance</li><li>2) Participation in classroom activities and homework</li><li>3) Evaluated Lab exercises</li><li>4) Written evaluations</li></ol>

