

E-100

Introduction to Electrical Control & Electrical Safety

<i>Course Description</i>	This four day course is designed to familiarize entry-level electricians, equipment operators and other skilled trades with electrical control fundamentals, electric terminology and basic troubleshooting techniques.
<i>Topical Outline</i>	<ul style="list-style-type: none">▪ Introduction to Electricity▪ Introduction to Electro-Magnetic Devices▪ Electrical Safety procedures▪ Circuit Protection▪ Use of Multimeter▪ Fundamentals of Control▪ Control Components and Pilot Devices▪ Symbology▪ Ladder Logic Diagramming and Wiring▪ Development and Analysis of Control Circuits▪ Control of Motor Starting▪ Maintaining and Troubleshooting Control Equipment and Circuits▪ Documentation
<i>Audience</i>	This course is designed for entry-level electricians, equipment operators and other skilled trades who need to broaden their understanding of industrial control fundamentals.
<i>Course Length</i>	32 hours
<i>CEU's</i>	3.0
<i>Objectives</i>	Persons completing this course will be able to: <ul style="list-style-type: none">▪ Learn to work safely with electrical components and test equipment.▪ Understand electrical terms and symbols▪ Identify electrical control components▪ Interpret ladder logic diagrams▪ Troubleshoot control circuits▪ Design simple electrical control circuits

NOTE

E-100 is also ideal for anyone who has a need to familiarize himself/herself with basic control fundamentals.