Hands-On

UL 508A Standard for Industrial Control Panels

Course Description

The introduction of the new Article 409 for Industrial Control Panels in the 2005 edition of the National Electrical Code (NEC) drew increased attention to installations of industrial control panels. Industrial control panels (ICPs) with the UL Mark are installable to the NEC and have a distinct competitive edge in the marketplace.

The first day of the workshop focuses on how to construct general use industrial control panels in accordance with the Standard for Industrial Control Panels, UL 508A, 3rd Edition. It covers UL 508A, general use ICP construction, power circuit, control circuit, rating and marking requirements, sections 1-61 enclosure construction requirements, sections 62-64 standards for components, Appendix A use of non-UL components, Appendix B and component usage, Appendix C.

The second day instructs industrial control panel customers on how to establish short-circuit ratings for individual industrial control panels in accordance with the requirements outlined in the new Standard for Industrial Control Panels, UL 508A, 3rd Edition, Supplement SB. This supplement is the only method specifically noted as being recognized by the NEC.

Students Will Learn

- **Introduction to industrial control panels**
- **Development of UL 508A**
- **Project categories & UL directory information**
- **UL's certification program for industrial control panels**
- **General requirements for all panels**
- **Construction requirements for enclosed panels**
- **Power circuits**
- **Control circuits**
- **Ratings and markings**
- **Industrial control panel enclosures**
- **Appendix A-Standards for components**
- **Appendix B-Use of non-UL components**
- **Appendix C-Component usage**

- **Supplement SB-Short circuit ratings**

Target Audience

Anyone responsible for and or working around electrical components and any control panels.
-Safety directors
-Electrical contractors
-Electricians
-Maintenance electricians
-Machine Builders
-Engineers
-Technicians
-Plant & facility maintenance technicians
-Electrical engineers

Prerequisites

Basic understanding of electricity.

Delivery Method

Available Instructor-led On-Site or Virtual Live Instructor-led.

Equipment Requirements

(This apply's to our hands-on courses only)

BTS always provides equipment to have a very successful Hands-On course. BTS also encourages all attendees to bring their own equipment to the course. This will provide attendees the opportunity to incorporate their own gear into the labs and gain valuable training using their specific equipment.

Course Length

2 Days