

# NFPA 79® - Electrical Standard For Industrial Machinery® 2021



Understand the difference between NFPA 79 2021 and NFPA 70 (NEC) 2020 when maintaining industrial machinery. Get an overview for the scope of the NFPA 79 2021 and understand its relationship with other codes. Learn how to effectively use the Standard as a guideline for wiring, sizing conductors and overcurrent protection for industrial machines operating from a nominal voltage of 1000 volts or less.

Delivered in either our Live Online Training format or in an On-site presentation and taught by industry veterans. Attendees are to have at least a basic understanding of the electrical standard needs used in their facility.

## WHAT THIS COURSE COVERS

- Understanding the Scope of NFPA 79
- Understanding how NFPA 79 Interacts with Other Standards.
- How to Effectively Use the Standard as a Guideline for Wiring, Sizing Conductors and Overcurrent Protection for Industrial Machines.
- Learn Preventative Maintenance for Equipment and Systems.
- Safety Techniques and Knowledge for Protecting Yourself and the Equipment from Electrical Hazards Including Faults to Ground.
- What NFPA 79 Says About Electrical Wiring and Controls Within OEM Equipment.

## WHO SHOULD TAKE THIS

- Electrical Contractors
- Electricians
- Maintenance Electricians
- Plant and Facility Maintenance Technicians
- Electrical Engineers

## COURSE OUTCOMES

- Understand where NEC (NFPA 70) Stops and NFPA 79 Starts
- Repair Equipment's Electrical Components Correctly for Safety, Compliance, and Longer Equipment Use
- Understand Equipment Design so Maintenance Tasks (Procedures) can be more Effective

## COURSE AGENDA

- Introduction to NFPA 79
- Modern Machine Tool Electrical Equipment
- Definitions
- General Requirements and Operating Conditions
- Disconnecting Means
- Protection from Electrical Hazards
- Protection of Equipment and Grounding
- Control Circuits and Control Functions, Operator Interface and Control Devices
- Control Equipment Location, Mounting, and Enclosures
- Conductors, Cables, and Flexible Cords
- Wiring Practices
- Electric Motors
- Lighting and Accessories
- Marking and Safety Signs
- Technical Documentation
- Testing and Verification
- Servo Drives and Motors



Lecture



Hands-on



ONSITE: 2-days (16 hours)



LIVE ONLINE: 2-days (16 hours)



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