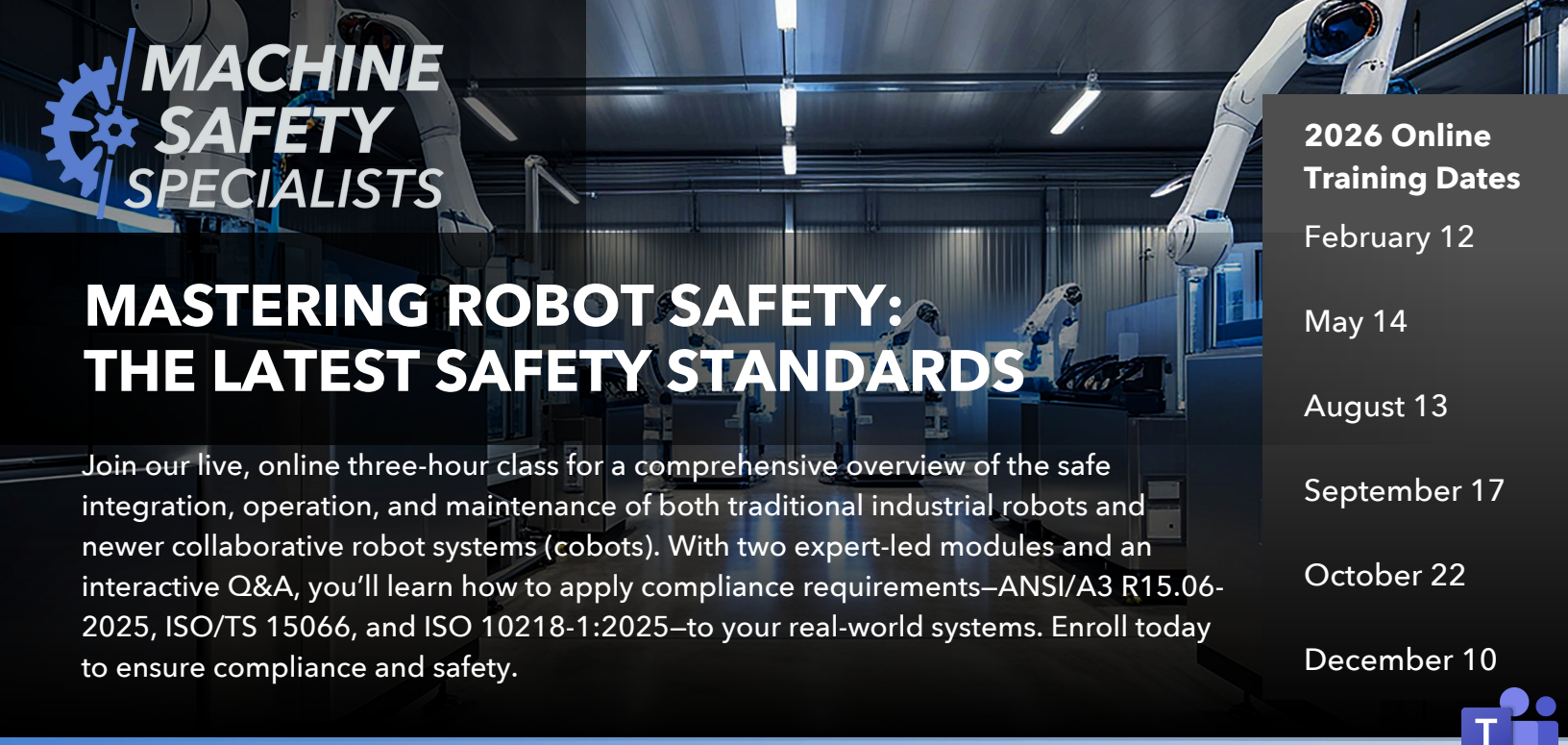

MACHINE SAFETY SPECIALISTS

MASTERING ROBOT SAFETY: THE LATEST SAFETY STANDARDS

Join our live, online three-hour class for a comprehensive overview of the safe integration, operation, and maintenance of both traditional industrial robots and newer collaborative robot systems (cobots). With two expert-led modules and an interactive Q&A, you'll learn how to apply compliance requirements—ANSI/A3 R15.06-2025, ISO/TS 15066, and ISO 10218-1:2025—to your real-world systems. Enroll today to ensure compliance and safety.

2026 Online Training Dates

February 12

May 14

August 13

September 17

October 22

December 10

ENGINEERS *INTEGRATORS* *SAFETY PROFESSIONALS* *TECHNICIANS*

ROBOT SAFETY COURSE OUTLINE

MODULE 1

Collaborative Robot Safety

- Foundational Principles of Collaboration
  - The Collaborative Application Concept
  - ISO/TS 15066 Overview
  - The Four Collaborative Techniques
- Risk Assessment for Collaborative Spaces
  - Collaborative Risk Assessment
  - Quasi-Static and Transient Contact
  - Force and Pressure Measurement
- Safety-Related Control Systems
  - Safety-Rated Monitored Stop
  - Speed and Separation Monitoring
  - Power and Force Limiting
  - Hand Guiding Controls
- Design, Validation and Operation
- Collaborative Workspace Design
- Safe Tooling and End-Effectors
- Validation and Verification
- Human Factors and Training

MODULE 2

Industrial Robot Safety

- Foundational Standards and Risk Management
  - Standard Structure and Application
  - The Risk Assessment Process
  - Hazard Recognition
  - Terminology Updates (2025 Revisions)
- Safeguarding and Perimeter Protection
  - Robot Cell Design and Layout
  - Fixed and Perimeter Guarding
  - Interlocked Barrier Devices
  - Muting and Blanking
- Safety Related Control Systems and Functions
  - Explicit Functional Safety Requirements
  - Protective Stop Functions
  - Monitored Standstill Implementation
  - Enabling Devices and Modes
- Life Cycle, Maintenance and Documentation
- Installation and Commissioning Requirements
- Validation and Verification
- Control of Hazardous Energy (Lockout/Tagout)
- End-Effector and Tooling Safety
- Cybersecurity in Safety
- Personnel Training and Responsibilities

740-816-9178

info@MSS-Safety.com

MACHINE GUARDING

RISK ASSESSMENT

SAFETY TRAINING

> *This was not just the best safety training I've taken; this was the best training class I've ever taken…It was exactly what we needed and will help immensely when guarding our equipment.*
>
> – Technical Manager

REGISTER NOW

CLASS LOGISTICS

Duration

3 hours total (90 minute module on industrial robots, 60 minute module on collaborative robots, and 30 minute Q&A).

Standards

Compliance with **ANSI/A3 R15.06-2025** (in both Collaborative and Industrial Robot Safety Modules), **ISO/TS 15066**, and **ISO 10218**.

Customization

Contact us to learn how content can be tailored to your facility, robot types, or existing safety program.

www.mss-safety.com (740) 816-9178 info@MSS-Safety.com