



## Certified Machine Guarding Specialist (CMGS)

40 Hours / 4.0 CEU's

Course Fees: \$1195.00

Note: Refresher certification is required every three years to maintain professional credential. Renewal Fee: \$150.00

Our Machine Guarding Specialist certification covers:

- Machine Safeguarding Designs and Techniques
- Explanation of the OSHA, State OSHA and American National Standards Institute (ANSI) Machine Guarding Standards
- How to Properly Conduct a Machine Guarding Program and Inspections

Course Objectives:

Regardless of the source of safeguards, the guards and devices used need to be compatible with a machine's operation and designed to ensure safe operator use. The type of operation, size, and shape of stock, method of feeding, physical layout of the work area, and production requirements all affect the selection of safeguards. Also, safeguards should be designed with the machine operator in mind as a guarding method that interferes with the operation of the machine may cause employees to override them. To ensure effective and safe operator use, guards and devices should suit the operation.

The Performance Criteria for Safeguarding [ANSI B11.19-2003] national consensus standard provides valuable guidance as the standard addresses the design, construction, installation, operation and maintenance of the safeguarding used to protect employees from machine hazards.

Learning Outcome:

This course will help you become familiar with a wide variety of common machinery and the associated hazards of the machinery along with related safety standards and appropriate guarding methods including protection about hazardous energy sources

(lockout/tagout). Participants will learn to apply hazard recognition concepts on a site inspection using a process of identifying and evaluating the machinery and machine guarding hazards; researching the related standards; and exploring hazard abatement options.

Learn to:

- Identify common machines and associated hazards found within a broad spectrum of industries.
- Identify hazards that occur around machinery, including, but not limited to, woodworking equipment, metal-working equipment, and mechanical and hydraulic power presses
- Recognize additional hazards common to abrasive wheels, power transmissions, mills, and calendars, as well as portable tool safeguarding
- Select appropriate OSHA and ANSI standards that apply to a particular hazard
- Present options to achieve abatement
- Hazard Identification and standards workshop
- Review of guarding and devices
- Control of hazardous energy sources (lockout/tagout)

Topics covered:

- Hazards and standards workshop
- Review of machinery and machine guarding
- Review of guarding and devices
- Control of hazardous energy sources (lockout/tagout)
- Electrical safety-related work practices

Materials: 29 CFR 1910 General Industry Safety Standards (provided)

Testing:

Students completing the course must take a proctored final exam. A score of 80% on the final exam is necessary to receive your professional credential. The student gets three (3) attempts to pass the course