
Course Syllabus:

A-SAF-030 Machine Guarding



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Overview

This course addresses common types of machinery, machine safeguards, and related OSHA regulations and procedures. The topics included in this course include:

Goals

This course contains two short learning modules, including:

- Machinery processes
- Mechanical motions and actions
- Points of operation
- Control of hazardous energy sources
- Guarding of machinery and powered tools

Lesson Topics

Module 1 Introduction

- Welcome
- Course Objectives
- WBT Library
- Glossary
- Learning Assessment & Final Exam
- Additional Information

Module 2 – Machinery Processes, Mechanical Motions and Points of Operation

- Objectives
- Machine Guards
- Machine Hazards
- Where Hazards Occur
- Mechanical Motions & Actions
- Rotating Machinery
- Nip Points
- Reciprocating Motions
- Transverse Motions
- Cutting
- Shearing
- Punching
- Bending
- Power Transmission
- Summary

Materials

Computer (PC, laptop)
Internet Connection: High Speed

You should print and maintain a copy of this course syllabus and overview on file at your facility. It is recommended that you provide a copy of this document in the event of a regulatory agency inspection.

Evaluation

Upon completion of the course of instruction, a comprehensive examination will be offered. In order to earn a Certificate of Completion, you must receive at least 80% on the exam.

The exam is comprised of at least 20 questions, randomly selected from a database of questions and address each of the lesson topics covered in the course.

Lesson Topics – cont'd

Module 3 – Points of Operation Guarding

- General Requirements
- Standards
- Machine Guards
- Fixed Guards
- Interlocked Guards
- Adjustable Guards
- Self-Adjusting Guards
- Effective Guards
- Guarding Safe Distances
- Devices
- Types of Devices
- Presence Sensing Devices
- Light Curtain
- Radiofrequency Presence-Sensing Device
- Electro-Mechanical Sensing Device
- Safety Mat
- Two-Hand Control/Trip
- Pullback/Restraints
- Moveable Gates (Barriers)
- Safety Trip Controls
- Other Methods
- Safe Distance
- Safe Holding
- Safe Opening Method
- Safe Position of Controls
- Managing the Safeguarding Program
- Effective Training
- Summary

Conclusion

- Certification Test Code
- Final Exam Prep