Occupational Safety and Health (OSH) 1065 Machinery and Machine Guarding (1.5 Units)
[formerly Industrial Education Safety 61 and Industrial Education Safety (IES) 1065]

Prerequisite: None

Total Hours: 26 hours lecture

Catalog Description: This course will cover various types of common machinery and the related safety standards. Guidance is provided on the hazards associated with various kinds of machinery and the control of hazardous energy sources (lockout/tagout). The course presents an approach to machinery inspection that enables participants to recognize hazards and to provide options to achieve abatement. These hazards include mechanical motions and actions created by points of operation and other machinery processes. This course is offered on a Pass/No Pass basis with the option to receive a letter grade. Not open to students with credit in IES 1065.

Type of Class/Course: Degree Credit


Additional Required Materials: None

Course Objectives:

By the end of the course, a successful student will be able to

1. identify basic machinery terms,
2. identify common machines found within a broad spectrum of industries,
3. identify hazards that occur in or on machinery,
4. select the appropriate Occupational Safety and Health Administration (OSHA) Standard that applies to a hazard, and
5. identify options to achieve abatement.

Course Scope and Content:

Unit I Machine Guarding Standards
A. Hazard Recognition
B. Machine Guarding Methods
D. Title 8, §§3944 & 3945

Unit II Subpart P, 29 CFR 1910.213, .215, and.219
Unit III  Site Inspection  
A. Subpart O, 29 CFR 1910.216, .217, and .218  
B. Title 8, §§3328  
C. Industrial Robots  

Unit IV  Site Inspection  
A. Subpart J, 29 CFR 1910, Lockout/Tagout  
B. Inspection Write ups  

Learning Activities Required Outside of Class: None  

Methods of Instruction:  
1. Lecture  
2. Group exercises  

Methods of Evaluation:  
1. Written final exam  
2. Performance observation  

Supplemental Data:  

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<th>095670: Indus Occupational Safe Health</th>
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<td>SAM Priority Code:</td>
<td>C: Clearly Occupational</td>
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<tr>
<td>Distance Education:</td>
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<td>Funding Agency:</td>
<td>Y: Not Applicable(funds not used)</td>
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<td>Program Status:</td>
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<td>Noncredit Category:</td>
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