Occupational Safety and Health (OSH) 1112 Forklift Training for Operators (.25)
[formerly Petroleum Technology 93I and Industrial Education Safety (IES) 1112]

Prerequisite: None

Total Hours: 4 hours lecture; 4 hours lab (8 hours total)

Catalog Description: This course is designed to introduce the student to the design, characteristics, and safe operating practices of the seven classes of powered industrial trucks. The course meets the general requirements of California’s standards found in Title 8, General Industry Safety Orders, Sections 3664 & 3668. 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 1112.

Type of Class/Course: Degree Credit

Textbook: None

Additional Required Instructional Materials: None

Course Objectives:

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

1. Describe the characteristics of powered industrial trucks (forklifts),
2. Describe and recognize the differences from other non-specialized mobile equipment, and
3. Safely operate a Class V forklift in a competent manner.

Course Scope and Content:

Unit I Authorized powered industrial truck operators (forklift)
   A. Cal-OSHA regulations
   B. Employer regulations

Unit II Regulatory requirements
   A. §3664 Operating rules
   B. §3668 Power industrial truck operator training

Unit III Applicability
   A. All engaged in power industrial truck operation
Unit IV Definitions
   A. Major components of power industrial truck

Unit V Forklift classification
   A. Description of seven classes of power industrial trucks

Unit VI Principles of operation
   A. Center of gravity
   B. Combined center of gravity
   C. Fulcrum principle
   D. Stability triangle

Unit VII Pre-Use inspection
   A. General condition
   B. Fluid check
   C. Wheels and tires
   D. Hydraulic cylinders
   E. Mast
   F. Forks
   G. Body

Unit VIII Operation
   A. Controls and instrumentation
   B. Load capacity
   C. General safety
   D. General hazards

Unit IX Pre-Use walk-around
   A. Low over hangs
   B. Debris in travel way
   C. Pedestrian traffic
   D. Safe passage

Unit X Functional testing
   A. Proper operation of hydraulic controls
   B. Proper operation of transmission
   C. Proper operation of brake system
   D. Proper operation of steering system
   E. Proper operation of safety devices

Unit XI Driving/Obstacle course
   A. Safe operation
   B. Use of hydraulic controls

Lab Content:
1. Practice driving a Class 5 forklift through a simulated warehouse “road”

Learning Activities Required Outside of Class: None
Methods of Instruction:

1. Lecture
2. Video
3. Driving practice

Methods of Evaluation:

1. Written final exam
2. Check-off driving proficiency

Supplemental Data:

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