

COCONINO COMMUNITY COLLEGE

COURSE OUTLINE

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Status: Permanent

Date: November 17, 1999
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A. Identification:

1. Subject Area: Construction Technology Management
2. Course Number: CTM 122
3. Course Title: Construction Materials & Equipment Safety
4. Credit Hrs: 3
5. Catalog Description:
This course will introduce the student to safety in the Construction Industry. Emphasis will be placed on safe operation of trade tools and equipment, job site safety and early hazard recognition. Topics covered include: Early hazard recognition, safety plans, safe transport and handling of construction materials and equipment, Scaffolding set-up techniques, Trench shoring and safety, Fall prevention planning and associated hazards. Three lecture.

B. Course Goals:

1. Demonstrate OSHA and construction industry safety regulations.
2. Demonstrate the safe use of a variety of construction trade related hand and power tools and equipment.
3. Apply knowledge gained to identify hazards on a construction site and understand the procedures necessary to take immediate corrective action to eliminate the recognized hazard.

C. Course Outcomes:

Students will:

1. Assess the Construction Industry as a professional career path.
2. Interpret fall prevention plans for a typical construction site.
3. Determine the proper scaffolding systems to use for a variety of installation scenarios.
4. Identify and describe a great variety of construction related hazards.
5. Prepare a fall prevention plan for a construction site.
6. Demonstrate and explain trenching and shoring safety.
7. Demonstrate their understanding of regulations concerning powder actuated fastening guns.
8. Demonstrate their understanding of regulations concerning safe forklift operations.

D. Course Content:

Will include:

1. Introduction to shop hand and power tools.
2. Safe operation of all tools.
3. Fall prevention plans.
4. Scaffolding set up for various applications
5. Hazard recognition and identification
6. Trench shoring systems
7. Safe Materials handling, measurement and transportation
8. Fire safety.
9. Electrical Safety and Lock out practices.
10. Toxic substance recognition and remediation.

11. Emergency First – Aid orientation.
12. OSHA regulations