

**IED 110 Course Outline as of Fall 2011****CATALOG INFORMATION**

Dept and Nbr: IED 110                      Title: INDUSTRIAL SHOP PRACTICE  
 Full Title: Industrial Shop Practices  
 Last Reviewed: 11/5/2001

<b>Units</b>	<b>Course Hours per Week</b>		<b>Nbr of Weeks</b>	<b>Course Hours Total</b>	
Maximum	1.00	Lecture Scheduled	2.00	8	Lecture Scheduled 16.00
Minimum	1.00	Lab Scheduled	0	8	Lab Scheduled 0
		Contact DHR	0		Contact DHR 0
		Contact Total	2.00		Contact Total 16.00
		Non-contact DHR	0		Non-contact DHR 0

Total Out of Class Hours: 32.00

Total Student Learning Hours: 48.00

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

**Catalog Description:**

Introduction to industrial shop practices, including shop safety and the use and maintenance of hand, shop and precision tools and equipment. Includes discussion of workplace environment and labor/management issues, shop expectations, practices, routines and career opportunities.

**Prerequisites/Corequisites:****Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: Introduction to industrial shop practices, including shop safety and the use and maintenance of hand, shop and precision tools and equipment. Includes discussion of workplace environment and labor/management issues, shop expectations, practices, routines and career opportunities. (Grade Only)

Prerequisites/Corequisites:

Recommended:

Limits on Enrollment:

Transfer Credit:

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>		Effective:	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

**CID:**

**Certificate/Major Applicable:**

Not Certificate/Major Applicable

## **COURSE CONTENT**

**Outcomes and Objectives:**

The student will:

1. Describe general and specific industrial shop safety standards and practices.
2. Explain the appropriate use and maintenance of hand, shop, and precision tools and equipment.
3. Describe the safe use of forklifts, overhead cranes, and other material handling equipment.
4. Evaluate labor / management issues in the workplace.
5. Discuss occupational survival skills.
6. Identify and evaluate the occupations for which students will be prepared.

**Topics and Scope:**

- I. Shop safety standards and practices
  - a. Cleanliness and order in the workplace
  - b. Proper lifting procedures
  - c. Fire and disaster procedures
  - d. Environmental health and safety compliance
- II. Career Information
  - a. Categories of industrial occupations
  - b. Wages, salaries, benefits
  - c. Local and regional opportunities
- III. Use and maintenance of hand, shop, and precision tools
  - a. Precision measuring tools
  - b. Hand and shop tools
  - c. Tool and equipment maintenance
- IV. Material handling equipment

- a. Lifting and carrying devices
  - b. Overhead lifting equipment
  - c. Material hauling and transferring
- V. Workplace environment
- a. Labor / Management issues
  - b. Shop expectations, practices, and routines
  - c. Work ethics

**Assignment:**

1. Classroom discussion and role-playing activities
2. Readings and written exercises

**Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework, Written exercises.	Writing 15 - 20%
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**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Measurements.Precision tool measurements.	Problem solving 10 - 40%
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**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None	Skill Demonstrations 0 - 0%
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**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion	Exams 30 - 60%
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**Other:** Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation.	Other Category 10 - 20%
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**Representative Textbooks and Materials:**

Diesel Technology Safety Skills, Student Edition, MAVCC, 1996.  
Instructor and industry handouts.