

CATALOG INFORMATION

Dept and Nbr: IED 112                      Title: INDUST. PREVENT. MAINT.  
Full Title: Industrial Preventive Maintenance  
Last Reviewed: 11/5/2001

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
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 or P/NP  
Repeatability:              00 - Two Repeats if Grade was D, F, NC, or NP  
Also Listed As:  
Formerly:

**Catalog Description:**  
The study of preventive maintenance and inspection practices as related to industrial machinery.

**Prerequisites/Corequisites:**

**Recommended Preparation:**

**Limits on Enrollment:**

**Schedule of Classes Information:**  
Description: The study of preventive maintenance and inspection practices as related to industrial machinery. (Grade or P/NP)  
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>	<b>Effective:</b>	<b>Inactive:</b>
<b>CSU GE:</b>	<b>Transfer Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>IGETC:</b>	<b>Transfer Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>CSU Transfer:</b>		<b>Effective:</b>	<b>Inactive:</b>
<b>UC Transfer:</b>		<b>Effective:</b>	<b>Inactive:</b>

**CID:**

**Certificate/Major Applicable:**

Not Certificate/Major Applicable

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Upon successful completion of this course students will:

1. Describe maintenance and inspection procedures for a variety of industrial machinery.
2. Locate and apply instructions from technical manuals to maintenance and inspection procedures.
3. Locate and identify critical lubrication points in machinery.
4. Differentiate among types of lubricants.
5. Interpret rating symbols on maintenance product labels and correlate to application.
6. Recognize symptoms of potential machine failure.

### **Topics and Scope:**

- I. Maintenance and inspection procedures
  - a. scheduled maintenance
  - b. preventive maintenance
- II. Using technical manuals
  - a. hard copy
  - b. computerized
  - c. locating information
  - d. interpreting instructions
- III. Lubrication
  - a. solid and liquid lubricants
  - b. lubrication points
  - c. rating symbols
- IV. Failure analysis
  - a. metallic parts failures
  - b. failures due to neglect/lack of maintenance

### **Assignment:**

1. Reading assignments and worksheets covering course topics.

2. Individual and group activities interpreting maintenance and inspection procedures.

### 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 - 30%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Quizzes, Exams

Problem solving  
10 - 40%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations  
0 - 0%

**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion

Exams  
30 - 60%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation.

Other Category  
10 - 20%

### Representative Textbooks and Materials:

Instructor and/or industry provided handouts.