

OESM 147: Electrical Safety

Course Syllabus

Course Description:

The class introduces the students to the basics of electricity and electrical safety. The course will familiarize students with the OSHA standards pertaining to electrical safety.

Course Objectives:

Upon completion of the course, students are expected to be able to:

- Demonstrate their understanding of basic electrical theory.
- Recognize actual and potential electrical hazards, the appropriate abatement and which standard to cite.
- Demonstrate their understanding of OSHA's electrical standards.
- Demonstrate the proper use of safety electrical test equipment.
- Improve your understanding of the National Electrical Code and how it ties in to the OSHA and OSHA's electrical standards.

TEXT: OSHA Training Institute Electrical Course Manual

<u>Week</u>	<u>Subject</u>
1	Introduction: Theory of Electricity
2	Electrical Hazards
3	Control of Electrical Hazards
4	Electrical Accidents; Review for Midterm I
5	Midterm I
6	OSHA General Industry Standards
7	OSHA GI Stds. (continued)
8	OSHA Construction Standards
9	Safe Work Practices & Training
10	Electrical Safety Management; Review for Midterm II
11	Midterm II
12	Presentations
13	Presentations
14	Presentations
15	REVIEW for FINAL
16	FINAL EXAMINATION

Student evaluation:

Class exercises & homework	50 points
Presentations	50 “
Midterm I	100 “
Midterm I	100 “
<u>Final</u>	<u>200 “</u>
Total	500 “

GRADING: Final grades are permanent. Final "I" grades will not be allowed in this class. Final "N" grades will be given only in very rare and exceptional cases.

- A = 500-450 pts.
- B = 449-400 pts.
- C = 399-325 pts.
- D = 324-250 pts.
- F = 250 pts. or less

HCC Grading Policies:

- a. No Show Policy. Students must attend both of the first two class sessions of the semester or may be dropped unless they notify the instructor or the Division Chair in advance of their absence.
- b. Disappear Policy. Students may receive an "F" grade if they do not officially drop their course by the drop deadline listed in the Academic Calendar of the current HCC catalogue or the schedule of classes.

EMERGENCY PROCEDURES:

- a. Location of first aid kit: In the back of classroom by the sink.
- b. Evacuation of building: Use Diamond Head and Ewa stairs and proceed to parking lot #2 (by the cafeteria). Assemble and wait for further instructions from the instructor.
- c. Accident or Injury During Evening, after 4:30 p.m.:
 - 1. Call 911 for an ambulance. Give essential information:
 - Location -- building and room number, road to enter campus
 - Type of emergency and victim's condition
 - Your name and phone number
 - 2. Call extension 247 or 284-1270 (cell - Security)
 - To notify others that an ambulance has been summoned
 - To have Campus Security escort the ambulance to the location
 - To request other assistance