

SAFETY and QUALITY

COURSE SYLLABUS

COURSE NO: ETIC 1853-01K

COURSE TITLE: AEROSPACE SAFETY and QUALITY (17wk)

Session #1

Course Introduction to OSHA 29CFR 1910 (General Industry)

Class will access the OSHA Website (www.osha.gov) download and print the Table of Contents for 29CFR 1910 as well as Table of Contents for Subparts A, B, D thru L, N thru Q, S, and Z. These items will serve as our course outline for the Safety part of this course. Sub Parts A and B will provide background, authority, and applicability of this regulation in General Industry.

Session #2

Subpart Z Toxic and Hazardous Substances

- .1001 Asbestos Awareness
- .1025 Lead & Cadmium
- .1030 Blood Borne Pathogens
- .1096 Ionizing Radiation

Session #3

.1200 Hazard Communication

Session #4

Subpart G Occupational Health and Environmental

- .95 Occupational Noise Exposure

Subpart I Personal Protective Equipment

- .133 Eye Protection
- .135 Head Protection
- .136 Foot Protection
- .137 Electrical Protective Devices
- .138 Hand Protection

Session #5

Subpart I Personal Protective Equipment

- .134 Respiratory Protection

Session #6

Subpart H Hazardous Materials

- .101 Compressed Gasses
- .106 Flammable and Combustible Liquids
- .120 Hazardous Waste Operations and Emergency Response

Subpart L Fire Protection

- .157 Portable Fire Extinguishers

Subpart E Means of Egress

- .38 Employee Emergency Plans and Fire Prevention

REVIEW FOR EXAM I

Session #7

EXAM I Covers Subparts A,B,E,H,I,L,Z. (25% OF Total Grade)

Session #8

Subpart D Walking – Working Surfaces

- .23 Guarding Floor and Wall Openings and Holes
- .24 Stairs
- .25/.26 Portable Ladders
- .27 Fixed Ladders
- .28 Scaffolds (Workbook)
- .29 Rolling Scaffolds

Subpart F Powered Platforms, Manlifts, Vehicle-Mounted Work Platforms

- .66 Personal Fall Arrest Systems

Session #9 Subpart F Powered Platforms, Manlifts, Vehicle-Mounted Work Platforms

- .67 Vehicle Mounted Elevating and Rotating Work Platforms
- .68 Manlifts

Subpart O Machine and Machine Guarding

- .212 General Requirements
- .215 Abrasive Wheel Machinery
- .217 Mechanical Power Presses

Sessions #10

Subpart G Occupational Health and Environmental

- .94 Ventilation

Subpart J General Environmental Controls

- .147 Control of Hazardous Energy LO/TO

Session #11 Subpart J General Environmental Controls (Cont.)

- .146 Permit Required Confined Space Entry
- REVIEW for EXAM II

SPRING BREAK: (March 27 through April 3, 2006)

Session #12

EXAM II Covers Subparts D, F, G, J, and O. (25% of Total Grade)

Subpart N Material Handling and Storage

- .178 Powered Industrial Trucks

Session #13

Subpart N Material Handling and Storage

- .179 Overhead and Gantry Cranes
- .184 Slings and Rigging Hardware

Session #14 Student Presentation “To be Assigned” (15% of Total Grade)

Instructor will augment.

Session #15 Student Presentation “To be Assigned” (15% of Total Grade)

Instructor will augment.

Session #16 Student Presentation “To be Assigned” (15% of Total Grade)

Instructor will augment and conduct Final Review for Exam III.

Session #17

FINAL EXAM III (25% OF Total Grade)

Grading Scale:

A	90 – 100
B	80 – 89
C	70 – 79
D	60 – 69
F	59 or Below

Grade Calculation:

Exam I = 25% of final grade

Exam II = 25% of final grade

Exam III = 25% of final grade

Student Presentation: = 15% of final grade

Student Presentation is a “Group Project” with all members getting the same Grade. This presentation is expected to last 50 to 60 minutes with all members of the group participating in the delivery to the class.

Attendance: = 10% of final grade

1st Absence: Explanation to instructor with any supporting documentation supplied by next class and loss of 5% of grade.

2nd Absence: Required appointment with the Director of Aerospace studies; Loss of an additional 5% of grade equating to the reduction of final course grade by one full letter grade.

3rd Absence: Failure of course.

Allowable excuses will be limited to birth of child, death of immediate family member and hospitalization (with supporting documentation).

Tardiness or leaving early will be treated as ½ absences. 2nd time being tardy will involve a trip to the Aerospace Director’s office.

Any homework due that is turned in late due to an unexcused absence would be reduced by one letter grade. Any make-up tests given due to unexcused absence would be given prior to the following class and shall be reduced by one letter grade.