# 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 (<a href="www.osha.gov">www.osha.gov</a>) 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 <u>Hazardous Materials</u>

.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

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

2<sup>nd</sup> 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.

3<sup>rd</sup> 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. 2<sup>nd</sup> 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.