

Soules College of Business Department of Technology TECH 3344 Industrial Safety

Course Syllabus

Instructor: Dominick E. Fazarro, Ph.D.

Section: 001

Fall Semester 2023

Class Time: Tu & Th 3:30pm-4:50pm

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Office Hours: Tu & Th 11am-12pm; 2pm-3pm

Course Content:

The study of environmental health and safety practices at is relates to business and industry. This course will provide useful practical knowledge for workplace safety which is mandated by OSHA. Students will also identify, evaluate and control hazards and potential hazards to prevent or mitigate harm or damage to people property, or the environment.

Required Textbook

C. Ray Asfahl & David W. Rieske (2019). Industrial Safety and Health Management (7th Ed.). Prentice Hall: Upper Saddle River. ISBN-13: 978-0134630564

Course Objectives:

According to the student learning outcomes, students are required to pass exams no lower than 70% and OSHA 30-hour exam no lower than 80%.

Student Learning Outcomes:

- Students will be able to appreciate the importance of OSHA (by assignment & exam)
- 2. Students will be able to appreciate the importance of being a Health/Safety Manager (by assignment & exam)
- 3. Students will be able to identify hazards along with hazardous work areas (by assignment & case study)
- 4. Students will be able to understand and use the different OSHA forms for recordkeeping (by assignment)
- 5. Students will be able to apply different fine amounts (in dollars) and the severity/level of each fine imposed on employer (by assignment)
- 6. Students will be able to identify potential hazards and make changes training (by assignment & case study)
- 7. Students will be able to conduct safety audits (by assignment, project & exam)

- 8. Students will be able to understand hazard communication signs (by assignment, & case study)
- 9. Students will be able to identify workable confined spaces (by assignment & case study)
- 10. Students will be about to learn required topics for completion of OSHA 30hr card (by assignment, & case study)
- 11. Students will be able to pass the OSHA exam (by exam)

Core Competencies

- 1. Computer-Based Skills the student will complete written assignments using the word processor.
- 2. Communication Skills the student will exhibit a mastery of both written and oral skills in completion and presentation of the assigned group projects.
- 3. Interpersonal Skills the student will interact in class discussion regarding following recommended safety standards
- 4. Problem Solving (Critical Thinking) the student will use conceptual thinking to analyze and make determinations regarding the use of hazards in the workplace.

Grading Policy and Criteria to Determine Final Course Grade:

Videos, and guest speakers will be supplemental to the course

Assignments

| 0 | Assignments/Case Studies | (25%) | |
|---|--------------------------|-------|--|
| 0 | Exam | (30%) | |
| 0 | OSHA EXAM | (45%) | |

Grade Scale Breakdown:

A = 90 - 100%

B = 80 - 89%

C = 70 - 79%

D = 60 - 69%

semester (Date of topics may be subject to change):

| Date/ Assignment Issued | No. | Topic/Activity | Reading (Pgs.) DUE DATE |
|-------------------------------|-----|--|----------------------------------|
| Aug 22 | 1 | ORIENTATION | - |
| Aug 22 | 2 | Chapter-1: The Safety and Health Manager | 1-13 |
| Aug 22 | 2 | Chapter-2: Development of the Safety and Health Function | 14-51 |
| Aug 22 | 2 | Assignment | Aug 29 |
| Aug 31 | 3 | Chapter-3: Concepts of Hazard Avoidance | 52-87 |

| Aug 31 | 3 | Chapter-4: Impact of Federal Regulation | 88-113 |
|-----------|----|---|-----------|
| Aug 31 | 3 | Assignment | Sept 5 |
| Sept 7-11 | 4 | EXAM 1(covers chapters 1-4) | - |
| Sept 7 | 5 | OSHA 30-HOUR TRAINING | - |
| Sept 7 | 6 | Intro. to OSHA | - |
| Sep 7 | 6 | Health and Safety Programs (PROJECT ANNOUNCEMENT) | Oct 5 |
| Sept 12 | 6 | Occupational Health | 284-313 |
| Sept 12 | 6 | Electrical Safety PPT/ (CHAPTER 17) | 443-465 |
| Sept 12 | 6 | Assignment | Sept 19 |
| Sept 21 | 7 | Personal Protective Equipment (PPE) PPT/ (READ CHAPTER 12) | 284-313 |
| Sept 21 | 7 | Eye and Face Protection PPT/ (READ CHAPTER 12) | 284-313 |
| Sept 21 | 7 | Assignment | Sept 26 |
| Sept 26 | 8 | Confined Space Hazard & Procedures PPT/(READ CHAPTER 12) (lecture will be moved to a future date) | 284-313 |
| Sept 26 | 8 | Assignment | Oct 3 |
| Oct 3 | 8 | Means of Egress, Emergency Plan & Fire Protection PPT/ (READ CHAPTER 13) | 314-323 |
| Oct 3 | 8 | Walkways and Working Surfaces PPT/ (READ CHAPTER 7) | 145-163 |
| Oct 3 | | Assignment | Oct 10 |
| Oct 10 | 8 | Machine Guarding PPT/ (READ CHAPTER 15) | 362-410 |
| Oct 10 | 8 | Assignment | Oct 17 |
| Oct 12 | 9 | Material Handling PPT/ (READ CHAPTER 14) | 328-356 |
| Oct 12 | 9 | Hazard Communication PPT | - |
| Oct 17 | 9 | Tools (Hand and Power) PPT (Extra Topic) | - |
| Oct 17 | 9 | Assignment | Oct 24 |
| Oct 19 | 10 | Welding Cutting & Brazing PPT/ (READ CHAPTER 16) | 418-435 |
| Oct 19 | 10 | Lockout & Tagout PPT | |
| Oct 25-27 | | ATMAE CONFERENCE | Oct 25-27 |
| Oct 31 | 10 | Flammable and Combustible Liquids* PPT/ (READ CHAPTER 11) | 263-283 |
| Oct 31 | 10 | Scavenger Safety Hunt | Nov 7 |
| Oct 31 | 11 | Bloodborne Pathogens PPT | - |
| Oct 31 | 11 | CASE STUDY | Nov 2 |
| Nov 7 & 9 | 12 | Advanced Material Safety (NO ASSIGNMENT) | - |

| - | THANKSGIVING HOLIDAY (November 22-27) | - |
|-------------|---------------------------------------|----------------|
| Nov 21 & 23 | In class review (JEOPARDY) | Nov 21 & 23 |
| Dec 4-9 | EXAM (OSHA EXAM) | Dec 4-9 |

Description of Exams

Exam 1 - The format for test 1 will consist of multiple choice, true and false and essay.

Exam 2 - Students will be issued an OSHA exam for receiving the OSHA 30-hour card.

The topics covered for the OSHA 30-hour card are:

Intro. to OSHA

Electrical Safety

Walkways and Working Surfaces

Means of Egress and Emergency Plan

Personal Protective Equipment (PPE)

Machine Guarding

Eye and Face Protection

Material Handling

Hazard Communication

Ergonomics

Bloodborne Pathogens

Confined Space Hazard & Procedures

Lockout & Tagout

***There will be a general introduction to OSHA mini test before taking the exam. **TEST WILL BE CLOSED BOOK!!!**

The power of the OSHA card

You are responsible for understanding the materials contain in the OSHA 30 training. If you pass the test, the OSHA card demonstrates that you understand the safety knowledge needed to preform you job safely and effectively.

PLEASE READ CAREFULLY!!!!!

***Thirty hours/1800-minute training will require students to sign in on the official OSHA sign in sheet.

If you miss a training session(s) you cannot continue to pursue the certification. An alternate test will be given to students so they can still receive a grade for test 2.

***You MUST pass the OSHA exam with 80 % score to obtain a card!!!!

*** Bring \$8 to class to pay for OSHA card.

***IF YOU ALREADY POSSESS AN OSHA-30 HOUR CARD, AN ALTERNATE ASSIGNMENT/TEST WILL BE GIVEN.

Grade Dispute

If you have a disagreement with your final grade, you have **1 week** to resolve it. You must bring all assignments when meeting with the instructor.

Using Canvas for Turning in Assignments

Blackboard will be the tool for communication and turning in assignments. ALL ASSIGNMENT MUST BE TURNED IN USING CANVAS BY 11PM. Folders will be created for each assignment to attach your assignments. Each assignment will have a due date. IF YOU DO NOT MEET THE DUE DATE FOR THE ASSIGNMENT, THE FOLDER WILL DEACTIVATE. THEREFORE, YOU WILL NOT BE ABLE TO TURN YOU ASSIGNMENT. YOU WILL NOT RECEIVE CREDIT. The only exception to turn in an assignment after the due date is if you are ill (with a written excuse) or technical difficulties. IT IS YOUR REPSONSIBILITY TO COMMUNICATE WITH TECHNICAL SERVICES TO RESOLVE YOU CANVAS MALFUNCTIONS.

Dates of Final Exam: December

4-9, 2023

Date to Withdraw Without Penalty: October

30, 2023

Attendance and Make-Up Policy:

Attendance is expected in this course in order to achieve maximum learning for all participants. Unforeseen circumstances do sometimes arise, so periodic absences may occur. If you find that you must miss a class meeting, please contact the instructor *prior* to the start of class. Please be on time. If you must arrive late, let the instructor know prior to the start of class. Laptops are permitted but the wireless internet card must be disabled during the class. Also, cell phones must be turned off and put away during class.

If a student is sick or have a death in the immediate family, the instructor will discuss the arrangements for turning in make-up work. The student must have written proof too make up an assignment or exam.

Communication between Instructor and Student

Please allow 1 to 3 days to respond back to you. Thank you for your patience.

Students Rights and Responsibilities

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link:

http://www.uttyler.edu/wellness/rightsresponsibilities.php

Grade Replacement/Forgiveness and Census Date Policies

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at http://www.uttyler.edu/registrar. Each semester's Census Date can be found on the

Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date is the deadline for many forms and enrollment actions that students need to be aware of. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- · Completing the process for tuition exemptions or waivers through Financial Aid

State-Mandated Course Drop Policy

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

COVID Guidance

• Information for Classrooms and Laboratories: It is important to take the necessary precautions to ensure a healthy and successful year. UT Tyler continues to urge you to protect yourselves against the flu, COVID and any new threats that may be developing. Be diligent about preventive measures such as washing hands, covering sneezes/coughs, social distancing, and vaccinations, which have proven to be successful in slowing the spread of viruses. Encourage those who don't feel well to stay home, and if they show symptoms, ask them to get tested for the flu or COVID. Self-isolation is important to reduce exposure (CDC quarantine/isolation guidelines). Please work with your faculty members to maintain coursework and please consult existing campus resources for support.

Disability/Accessibility Services

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including non-visible a disability diagnosis such as a chronic disease, learning disorder, head injury or ADHD, or you have a history of modifications or accommodations in a previous educational environment you are encouraged to contact the Student Accessibility and Resources office and schedule an interview with an Accessibility Case Manager. If you are unsure if the above criteria applies to you, but have questions or concerns please contact the SAR office. For more information or to set up an appointment please visit the SAR webpage (http://www.uttyler.edu/disabilityservices/) or the SAR office located in the University Center, Room 3150 or call 903.566.7079. You may also send an email to saroffice@uttyler.edu.

Recording of Class Sessions

Class sessions may be recorded by the instructor for use by students enrolled in this course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in this course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.

Campus Carry

We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at http://www.uttyler.edu/about/campus-carry/index.php

Student Absence due to Religious Observance

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement:

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via email) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation:

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

Expected Classroom Etiquette:

The University of Texas at Tyler is committed to promoting a level of classroom etiquette that is conducive to maximum teaching and learning. Therefore, the following etiquette is expected of students:

- 1. Attend class each time the class meets.
- 2. Be on time for class and remain for the entire period. Students are inconsiderate of their classmates when they arrive late and leave early.
- 3. Refrain from talking while the teacher or another student is lecturing. Idle chattering and giggling are disruptive to the class and disrespectful to the teacher and classmates.
- 4. Without prior approval from the instructor, students are not allowed to use cellphones, devices with earphones in class. LAPTOPS MAY BE USED FOR TAKING NOTES ONLY!!!!
- 5. Be attentive and participate in class.