**Course: FPST 2023 – Industrial and Occupational Safety – Summer 2022 – Online**

**Instructor: Tim Wilson, MS, CSP, CHMM**

**tim.wilson10@okstate.edu**

**Course Objectives**

Students will develop fundamental skills related to recognition, classification, evaluation and mitigation or control occupational hazards potentially found in industrial worksites. Facilities, equipment, and operations will be studied for potential for loss. Studies are directed toward gaining knowledge about hazards and controls for workers, machines, and the working environment. Compliance standards for General Industry and Construction are emphasized.

**Learning Objectives**

1. Recognize, identify, evaluate common industrial hazards
2. Evaluate specific industrial work tasks for hazards and develop control methods
3. Understand specific industrial work methods such a confined space, excavations, and controlling hazardous energies, etc.
4. Understand appropriate control methods for identified risks
5. Understand the regulatory environment and be able to identify the appropriate standards for industrial work activities and interpret the regulatory implications.

**Learning Outcomes**

At the end of this course, students should be able to:

1. Identify and classify common hazards in an industrial environment (including manufacturing, construction, and agricultural operations)
2. Evaluate hazards for severity and consequence,
3. Develop mitigation and control strategies for identified hazards.
4. Develop specific operational procedures and work methods to reduce hazards and risk.
5. Research regulatory and consensus standards for appropriate requirements and control methods.

# Required Texts

1. Textbook - Accident Prevention Manual for Business and Industry - Engineering & Technology,14th Edition, National Safety Council. ISBN 978-0-87912-322-2

**Amendments**

Only the OSU instructor may adjust the requirements and/or schedule of the class as necessary. Amendments will only be made if it is in the best interest of the learning experience. Amendment notifications will be provided to the students.

# Attendance

* Late work is not accepted. If work is submitted late due to issues outside of the student’s control, a deadline extension for the late work will be evaluated by the course instructor.
* If you arrive late to an exam, you will receive a zero for that exam. If the tardiness is due to issues outside of the student’s control, a deadline extension for the late exam will be evaluated by the course instructor.
* Make-up of exams, homework and labs will only be allowed for university sanctioned absences only (see OSU policy 2-0217) which have been **coordinated in advance** with the OSU/SWJTU. **Travel for university functions is not an appropriate reason for late work**. Severe illness, death in the immediate family, or other similar emergencies are justifiable under university policy, however, the student should make every attempt to notify the OSU/SWJTU via telephone or email as soon as reasonably possible when the emergency condition is known. Each situation is evaluated on a case-by-case basis. Failure to communicate with the OSU/SWJTU in a timely manner will result in a zero for any relevant assignments and attendance grades.

# Reading Assignments

This class involves significant out-of-class assignments. The student is responsible for all material assigned regardless of inclusion in class lecture.

The Course Schedule at the end of this syllabus lists the reading assignments.

# Behavior

* Phone use is limited to translation assistance only. Taking pictures or the use of recording equipment is prohibited without the expressed written consent of the OSU/SWJTU instructor. Any unauthorized recordings or photography will result in a letter grade of F for the course.
* All backpacks will be placed at a specified location in the classroom during exams. Hats and watches will not be worn during exams. The OSU/SWJTU instructor reserves the right to examine any eyewear at any time during scheduled class sessions.
* Looking at another person’s test, having unauthorized notes, recording of test content by any means (digital, written, etc.) or any other form of academic misconduct is grounds for removal from the test and a score of zero.
* You may not leave the classroom during a test. If you must leave during the test, you must submit your test as completed at that time.
* During exams, exam preparation sessions, exam review sessions, or any other time when a student views an exam, any recording or photography will automatically constitute as cheating resulting in a score of zero for the exam.

# Grading

Course grades will be determined by the following:



• A – ≥90% – 100%

• B – ≥80%; <90%

• C – ≥70%; <80%

• D – ≥60%; <70%

• F – <60%

• F! – Cheating

# Academic Misconduct

Copying the work of another for personal credit is **plagiarism** whether the work is a published work or the unpublished work of another student. Plagiarism in a grade of zero for the assignment. Academic dishonesty includes both giving and taking of improper assistance on writing assignments or examinations as well as any other form of attempting to gain credit for work that is not that of the student.

**Calculators**

Permissible calculators:

* Hewlett Packard: HP 30s; HP 33s; HP 9s
* Casio - FX 115 ES, FX115MS, and FX.115MSPlus
* Texas Instruments - TI3OXA; TI 30X HS and TI 30X 11B; TI36X Solar

Prohibited calculators:

* Cell phone calculators
* Any programmable or graphing calculator such as the TI 82, TI 83, TI 84 and TI 89

**Course Schedule**

