

# Course Syllabus

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## ENVH 460/560 Occupational Safety Management

**ENVH 460 - 3 Credits ENVH 560-4 Credits**

**Instructor Names: Rick Gleason, Edward Kasner Winter 2023**

**Time: Tuesdays 11:30 am - 2:20 pm**

**Location: HSEB 215**

Winter Quarter, 2023, 4 credits for ENVH 560 / 3 Credits for ENVH 460, 10 weeks

Time: Tuesday, 11:30 – 2:20 pm (ENVH 460 and 560)

Location: HSE B215

Instructor: Rick Gleason, [rgleason@uw.edu](mailto:rgleason@uw.edu) (206) 856-6660 (<mailto:rgleason@uw.edu>)

Edward Kasner [ejkasner@uw.edu](mailto:ejkasner@uw.edu) (<mailto:ejkasner@uw.edu>) 206-616-4225

Office Hours by appointment

Each student will give a presentation to the entire class of approximately 15 minutes and approximately 15 powerpoint slides. Each student should also prepare 3 questions regarding their topic at the end of their powerpoint. The presentation will be worth 100 points. Questions from the student presentation will be incorporated into the final exam.

Total points for the class are 10 weekly assignments of 25 points each

One presentation 100 points one final exam 100 points for a total of 450 points.

You can find model powerpoint programs in the Files section to the left as well as on the Labor and Industries DOSH Website:

<https://lni.wa.gov/safety-health/safety-training-materials/online-safety-training> 

<https://lni.wa.gov/safety-health/safety-training-materials/online-safety-training>

ENVH 460/560 Presentations

January 10, 2023

Workplace Violence Prevention: Johanna Wood

Driving Motor Vehicle Safety: Tarnvir Gadhri

Introduction to OSHA: Gulseerut Grewal

Respirable Silica: Kyle Evans

January 17, 2023

Late Night Retail Worker Safety: Xeyneb Al-Azadi

Access Medical Records Exposure: Ashlyn Gonzalez-Soriano

Office Safety: May Kim

Teen Safety: Matthew Deinitchenko

January 24, 2023

Machine Guarding: Flora McAllister

Lockout-Tagout (LOTO): Heather Larsen

Electrical Safety: NA

Heat Illness: Sarina Tran

January 31, 2023

Fire Extinguishers: Nathan Winward

Welding Safety: John Lykins

Process Safety Management: Cassady Surfleet

February 7, 2023

Confined Spaces: Yoojin Kang

Hearing Conservation Noise: Asheton Gilbertson

Arsenic: Angela McCown

Respiratory Protection: Kyla Haggith

Hazcom Chemical Hazard Communication (GHS): Renea Ramanan

February 14, 2023

Flammable Material Storage: NA

Bloodborne Pathogens: Jeremy Leung

Solvent Safety: Rothboursy Doung

Occupational Asthma: Jacqueline Williamson

February 21, 2023

Forklift (Powered Industrial Trucks): Bridget Ury

Eye Safety: Kaylen Kawakami

Hand Safety: Maggie Woodwell

Ergonomics: Matt Hansen

February 28, 2023

OSHA Recordkeeping: NA

Egress Fire: Elise Munerman

Preventing Slips Trips and Falls: Nai'A Freeman

Scaffold Safety: Josh Pandher

March 7, 2023

Methylene Chloride: Mae Coker

Emergency Eyewash: Allison Clonch

Last Assignment Due March 15, 2022 No Class

**Text provided free as a PDF under the course File Section. It is the OSHA 7500 Introduction to Safety and Health Management (330 pages) provided by the Pacific Northwest OSHA Training Center, Region X.**

### **Course Description:**

This class will cover the basics of a company safety and health program and the minimum requirements under Federal OSHA and State OSHA. All students will present their findings for specific industry hazards and graduate students will develop an additional industry safety and health written accident prevention program.


Each student will give a presentation to the entire class of approximately 15 minutes and approximately 15 powerpoint slides. Students in attendance will be able to take know the elements on the final exam as the final will come from the questions of each of the students. . The presentation will be worth 100 points.

Total points for the class are 10 weekly assignments of 25 points each

One presentation 75 points, one final exam 75 points for a total of 400 points.

## Access and Accommodations

Your experience in this class is important to me. If you have already established accommodations with Disability Resources for Students (DRS), please communicate your approved accommodations to me at your earliest convenience so we can discuss your needs in this course.

If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (conditions include but are not limited to mental health, attention-related, learning, vision, hearing, physical or health impacts), you are welcome to contact DRS at 206-543-8924 or [uwdrs@uw.edu](mailto:uwdrs@uw.edu) (<mailto:uwdrs@uw.edu>) or [disability.uw.edu](http://depts.washington.edu/uwdrs/)  (<http://depts.washington.edu/uwdrs/>). DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions. Reasonable accommodations are established through an interactive process between you, your instructor(s) and DRS. It is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law.

## Religious Accommodations

Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at [Religious Accommodations Policy](https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/) (<https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/>). Accommodations must be requested within the first two weeks of this course using the [Religious Accommodations Request form](https://registrar.washington.edu/students/religious-accommodations-request/) (<https://registrar.washington.edu/students/religious-accommodations-request/>).

**Learning Objectives:** At the end of this course, the student will be able to:

1. identify the components needed to provide a safe and healthful work environment through case studies and review of injury statistics provided in the course.
2. analyze safety and health issues resulting from worker complaints or OSHA violations and suggest potential remedies.
3. identify potential workplace safety and health hazards and determine how to mitigate the hazards through engineering controls, administrative controls and personal protective equipment.
4. demonstrate research skills necessary for mastery of the topic, which will entail a presentation on a specific industry. Worker compensation claims in the industry selected by the student will be evaluated and injury prevention methods reviewed in the report.
5. conduct basic safety inspections using strategies that they have developed through hazard identification and job hazard analysis.
6. identify and demonstrate a working knowledge of the occupational health and safety regulations contained in the Federal Register under the 29 CFR 1910 standards.
7. review the principles for developing and implementing a successful occupational health and safety program and evaluation of a work site.
8. identify the major historical events that influenced accident prevention activities in the pre/post industrial revolution.
9. compare past and contemporary philosophies of safety and accident prevention as well as be able to compare injury data from previous decades.
10. identify the moral and economic consequences associated with the major classifications and causes of accidents and the cost of workers compensation based on the risk classes of industries.
11. apply psychological principles to individual acts of unsafe behavior and unsafe acts and the prevention of each.
12. explain the causal relationship between accidents and liability including the no fault workers compensation system and the third party liability type lawsuit.
13. identify the requirements of training programs in the workplace under the existing OSHA and State-OSHA Requirements.



## Welding Safety

## Process Safety management


- Feb. 7, 2023      Ventilation, Exposure Controls, Noise 1910.95  
Respiratory Protection (1910.134)  
HazCom Chemical Hazard Communication, MSDS /  
Asbestos / Arsenic
- Feb. 14, 2023      Storage of Flammable Materials  
Bloodborne Pathogens (1910.130)  
Methylene Chloride / Occupational Asthma
- Feb. 21, 2023      Forklift Safety (Material Handling) (1910.178)  
Personal Protective Equipment (1910.132) / Eye Safety / Hand  
Safety / Ergonomics
- Feb. 28, 2022      OSHA Record Keeping / Emergency Eyewash /  
Ladder Safety / Scaffold Safety
- March 7, 2023      Accident and Incident Investigation (Last Class)  
Root Cause Analysis Last Class  
Take Home Exam Provided on Canvas
- March 14, 2023      Take Home Final Exam Due

## Grading

**Undergraduate grades** (ENVH 460) are based upon a midterm (25%), a final (25%), a 20 minute oral presentation to the class for a specific industry (25%) and Homework (25%).

**Graduate Grades** (ENVH 560) are based upon a midterm (20%), a final (20%), a written Company Health and Safety Program (25%), a 20 minute oral presentation to the class for a specific industry (15%) and Homework (20%).

To request academic accommodations due to a disability, please contact Disability Resources for Students, 448 Schmitz Hall, 206-543-8924 (V/TTY). If you have a letter from Disability Resources for Students indicating that you have a disability which requires academic accommodations, please present the letter to me so we can discuss the accommodations you might need in this class.

- Academic Integrity Statement - Students at the University of Washington (UW) are expected to maintain the highest standards of academic conduct, professional honesty, and personal integrity. The UW School of Public Health (SPH) is committed to upholding standards of academic integrity consistent with the academic and professional communities of which it is a part. Plagiarism, cheating, and other misconduct are serious violations of the University of Washington Student Conduct Code (WAC 478-120). We expect you to know and follow the university's policies on cheating and plagiarism, and the [SPH Academic Integrity Policy](#)  (<http://sph.washington.edu/students/academicintegrity/>). Any suspected cases of academic misconduct will be handled according to University of Washington regulations. For more information, see the University of Washington Community Standards and Student Conduct website.

Additional Graduate Student ENVH 560 Organizing and Administering Industrial Safety and Health Programs Class Assignment (Undergraduate Students are not required to complete this assignment)

Each **graduate** student will write a complete Company Health and Safety Accident Prevention Program for a specific type of industry. The list below gives examples of the types of industries and the types of chapters in your manual. A presentation to the class on the hazards of that industry will also be provided.

Possible Industries (although you can select any type of industry you would like)

Aluminum Smelter

Meat Packing

Auto Repair Shops

Metal Fabrication Shop

Bakery

Mining












Chemical Manufacturer

Pesticide Applicator





# Course Summary:

Date	Details	Due
Tue Jan 10, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787603">Assignment 1</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787603">https://canvas.uw.edu/courses/1612720/assignments/7787603</a>	due by 11:30am
Tue Jan 17, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787606">Assignment 2</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787606">https://canvas.uw.edu/courses/1612720/assignments/7787606</a>	due by 11:30am
Tue Jan 24, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787607">Assignment 3</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787607">https://canvas.uw.edu/courses/1612720/assignments/7787607</a>	due by 11:30am
Tue Jan 31, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787608">Assignment 4</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787608">https://canvas.uw.edu/courses/1612720/assignments/7787608</a>	due by 11:30am
Tue Feb 7, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787609">Assignment 5</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787609">https://canvas.uw.edu/courses/1612720/assignments/7787609</a>	due by 11:30am
Tue Feb 14, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787610">Assignment 6</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787610">https://canvas.uw.edu/courses/1612720/assignments/7787610</a>	due by 11:30am
Tue Feb 21, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787611">Assignment 7</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787611">https://canvas.uw.edu/courses/1612720/assignments/7787611</a>	due by 11:30am
Tue Feb 28, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787612">Assignment 8</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787612">https://canvas.uw.edu/courses/1612720/assignments/7787612</a>	due by 11:30am
Tue Mar 7, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787613">Assignment 9</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787613">https://canvas.uw.edu/courses/1612720/assignments/7787613</a>	due by 11:30am
Tue Mar 14, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787604">Assignment 10</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787604">https://canvas.uw.edu/courses/1612720/assignments/7787604</a>	due by 11:30am
Tue Mar 14, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787605">Assignment 12 Graduate Student Acc. Prev Program</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787605">https://canvas.uw.edu/courses/1612720/assignments/7787605</a>	due by 11:59pm
Tue Mar 14, 2023	 <a href="https://canvas.uw.edu/courses/1612720/assignments/7787614">Roll Call Attendance</a> <a href="https://canvas.uw.edu/courses/1612720/assignments/7787614">https://canvas.uw.edu/courses/1612720/assignments/7787614</a>	