



COURSE INFORMATION

Instructor	Shawna Page
Email	Shawna.page@umontana.edu
Credits	3
Contact Hours	48

DESCRIPTION

This course provides an overview of safe industrial practices and provides students with hands-on experiences in rigging for a variety of industries. Students will also learn elements of first aid, cardio-pulmonary resuscitation (CPR), and proper use of Automated External Defibrillators (AED's).

COURSE OBJECTIVES

At the completion of this course students should be able to:

- 1) Complete the requirements for an OSHA 30 certification
- 2) Recognize the four fatal hazards
- 3) Demonstrate the ability to perform CPR, proper application of AED, and perform basic first aid
- 4) Demonstrate the ability to property construct and use a scaffold system
- 5) Identify the equipment needed and properly perform the task of shifting heavy loads using winches, cranes, and other similar equipment
- 6) Demonstrate the ability to safely secure loads for transport
- 7) Demonstrate the ability to properly use fall restraint gear
- 8) Safely ascend a ladder with properly donned fall restraint and arrest equipment
- 9) Demonstrate the ability to recognize and avoid electrical hazards
- 10) Demonstrate the ability to recognize and avoid potential hazards in the workplace
- 11) Recognize hazardous materials and know how to use Safety Data Sheets (SDS)
- 12) Recognize and minimize the hazards of confined spaces

PRODUCTION AND TESTING

The Student is expected to practice chapter/unit activities independently until student feels proficient. Participation in discussion forums may be a component of this course. It is the expectation that in-class production or homework assigned outside of class will be turned in when due. It is the student's responsibility to check due dates and turn in assignments when due. Tests will be written or produced using a computer. Makeup for a missed test is not offered unless faculty is notified and guidelines are identified for the individual situation before each test. Students may be able to make up a missed test for emergency situations such as sickness or required work activities, but must submit documented excused absences such as a doctor note identifying excused dates or mandatory work related travel dates in a timely manner.



CERTIFICATIONS

Successful students will earn the following certifications: CPR, AED and First Aid, OSHA 30

REQUIRED TEXTS/MATERIALS

Kemp, Albert W. *Industrial Mechanics*. 3rd ed. Orland Park, IL: American Technical Publishers, 2012. Print. ISBN 978-0-8269-3705-6

Kemp, Albert W. *Industrial Mechanics* 3rd ed. Orland Park, IL: American Technical Publishers, 2012. Workbook. ISBN 978-0-8269-3706-3

29 CFR 1926 OSHA Construction Industry Regulations, July 2014 ed. Davenport, IA: Mancomm, 2014. Paperback. Book ISBN: 9781599595665; CD ISBN:9781599595696; Book & CD UPC: 688550000239

Medic First Aid and CPR

OSHA 30 Hour Construction Manual

REQUIRED EQUIPMENT

Students are required to wear safety glasses, safety boots, and hardhat to all labs. Students who do not have required safety equipment in lab will not be allowed to participate in lab activities and will be counted absent for that lab.

ASSESSMENT/GRADING POLICIES

90 - 100 = A

80 - 89 = B

70 - 79 = C

60 - 69 = D

GRADING BREAKDOWN

Attendance	100 points
Module Tests	100 points
Lab Proficiencies	200 points
Other (class participation, pop quizzes, etc.)	100 points
Total Points Available	500 points

EXAMS

Because of the short duration of this class, plan on a quiz or test every day. There are no 'make-up' exams. If you will miss an exam, you must notify me and make arrangements in **advance** to take the exam. If you are ill, a note from the doctor may be required.

ATTENDANCE AND PARTICIPATION

Attendance and participation are mandatory. Absence from class **or** lab will result in a 20-point reduction in the attendance points. Participation points are awarded based upon your presence in classes and labs and your active participation in activities, discussions, and Q & A.





LABORATORIES

Laboratories are a required portion of this course. There will be on average one three-hour lab per every other day. There is no reasonable way to make up a missed lab. If you miss 3 labs, you will not be able to earn 70% of the lab points possible and should drop the class.

COURSE OUTLINE

Day 1: Medic 1st Aid, and CPR/AED – OSHA 30 – Intro to OSHA

Day 2: 1st Aid Quiz – OSHA 30 – Fatal 4 – PPE – Fall Protection

Day 3: OSHA 30 – Hazardous Recognition – confined space – electrical – Mid Term test

Day 4: OSHA 30 – lifting and back safety – scaffolding – excavations – stairways and ladders

Day 5: OSHA 30 – Rigging and Hand signaling

Day 6: OSHA 30 – Tool Safety – Review – Final Exam

DISABILITY ACCOMMODATIONS POLICY

Students with disabilities may request reasonable modifications by contacting me. The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Disability Services for Students. “Reasonable” means the University permits no fundamental alterations of academic standards or retroactive modifications.

