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NRGY 191.01K: Special Topics - Safety and Rigging

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SAFETY AND RIGGING – NRGY 191

COURSE DETAILS

<i>COURSE NUMBER</i>	NRGY 191-01
<i>COURSE TITLE</i>	Industrial Safety and Rigging
<i>COURSE SCHEDULE</i>	Tuesday 10:00-12:00 in TT11 and 1:00-5:00 in TT04 Course meets January 27, 2015 through April 14, 2015
<i>SEMESTER CREDITS</i>	3
<i>CONTACT HOURS</i>	Lecture: 30 Lab hours: 30
<i>INSTRUCTOR</i>	Shawna Page shawna.page@umontana.edu

COURSE 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

Given the need to understand rigging and safety procedures as they relate to the field of sustainable energy, the student will participate in, and complete this course with a grade of C or better. Upon successful completion of this course, the student will:

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

CERTIFICATIONS

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

STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES

Grades will be awarded on the following scale:

90% to 100% = A
89% to 80% = B
79% to 70% = C
69% to 60% = D

Grade Breakdown:

Attendance	100 points
Module Tests	100 points
Lab Proficiencies	200 points
Other (class participation, pop quizzes, etc.)	100 points
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TOTAL POINTS AVAILABLE	500 points

NOTE: Students are required to pass this class with a 70% or better to receive the Certificate of Technical Skills for Tier I Energy Technology.

REQUIRED TEXTS

- 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 10 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.

EXAMS

Exam dates will be announced well in advance. There are no 'make-up exams' without prior notice of absence. 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 a doctor may be required.

ATTENDANCE AND PARTICIPATION

Attendance and participation are mandatory. Absence from class **or** lab will result in a 10-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 week. There is no reasonable way to make up 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**:

Week 1 (Jan 27):	Industrial Safety Medic First Aid, and CPR/AED
Week 2 (Feb 3):	OSHA 30--Intro to OSHA -- Fatal 4
Week 3 (Feb 10):	OSHA 30--- PPE Hazardous Recognition OSHA 30 ---test----Confined space
Week 4 (Feb 17):	OSHA 30 ---lifting and back safety---rigging
Week 5 (Feb 24):	OSHA 30 ---stairways and ladders---scaffolding
Week 6 (Mar 3):	NO CLASS
Week 7 (Mar 10):	OSHA 30---excavations---Midterm Exam
Week 8 (Mar 10):	Fall Protection---scaffolding
Week 9 (Mar 17):	Electrical
Week 10 (March 24):	Rigging and hand signaling
Week 11 (Mar 30-April 3)	NO CLASS – SPRING BREAK
Week 12 (April 7):	Tool Safety
Week 13 (April 14):	FINAL EXAM

**Weather and availability of sites and equipment for training may require alteration of the established schedule. Students will receive as much notice as possible of such alterations.

DROP/ADD POLICY

The Drop/Add Policy may be found at the [Registrar's webpage](http://www.umt.edu/registrar/students/dropadd.php).
(Visit at <http://www.umt.edu/registrar/students/dropadd.php>)

ACADEMIC HONESTY POLICY

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the [Student Conduct Code](http://www.umt.edu/vpsa/policies/Student%20Conduct%20Code%20PDF%202013.pdf).

(Visit at <http://www.umt.edu/vpsa/policies/Student%20Conduct%20Code%20PDF%202013.pdf>)

STUDENTS WITH DISABILITIES

Students with disabilities will receive reasonable accommodations in this course. To request course modifications, please contact me as soon as possible. I will work with you and [Disability Student Services](#) in the accommodation process.

(Visit at <http://www.umt.edu/dss/> or call 406.243.2243).

CHANGES TO THE SYLLABUS

Instructor reserves the right to modify syllabus and assignments as needed based on faculty, student, and/or environmental circumstances. If changes are made to the syllabus, amended copies will be dated and made available to the class.

COMMUNICATION

Communication is vital to your success in this course. Contact information is provided in this syllabus. As the Course Instructor, I try to answer all calls and e-mails promptly. Communicating with the Course Instructor is the Student's responsibility especially with regard to meeting deadlines. In general, late assignments are not accepted and exams cannot be made up. If an unforeseen event happens, please contact the Course Instructor immediately--and PRIOR to a deadline--to make alternative arrangements for meeting your class responsibilities.

MAIL POLICY AT UMONTANA

According to University email policy, an "employee must use only UM assigned student email accounts for all email exchanges with students, since such communication typically involves private student information." This means that you must send any correspondence through your UMConnect account. For more information on setting up and using your UMConnect account, visit the [Information Technology Support](#) webpage.

(Visit at <http://www.umt.edu/it/support/email/studentemail.php>)