SYLLABUS

DATE OF LAST REVIEW: 02/2013
CIP CODE: 48.0508
SEMESTER: Departmental Syllabus
COURSE TITLE: Welding Safety/OSHA 30
COURSE NUMBER: WELD0100
CREDIT HOURS: 2
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
OFFICE HOURS: Departmental Syllabus
TELEPHONE: Departmental Syllabus
EMAIL: KCKCC issued email accounts are the official means for electronically communicating with our students.

PREREQUISITES: None

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, www.kckccbookstore.com, for the required texts for your particular class.

COURSE DESCRIPTION:
Through a variety of classroom and/or lab learning and assessment activities, students in this course will: explain job/site safety and precautions for job/site hazards; determine the uses of personal protective equipment (PPE); identify the safety equipment and procedures related to safe work practices and environment; identify fire prevention and protection techniques; and explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS).

METHOD OF INSTRUCTION:
A variety of instructional methods may be used depending on content area. These may include but are not limited to lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:
I. Introduction to OSHA - Two Hours
A. OSH Act, General Duty Clause, Employer and Employee Rights and Responsibilities, Whistleblower Rights, Recordkeeping basics  
B. Inspections, Citations, and Penalties  
C. General Safety and Health Provisions, Competent Person, Subpart C  
D. Value of Safety and Health  
E. OSHA Website, OSHA 800 number and available resources

II. OSH Act Subparts  
A. Walking and Working Surfaces - including fall protection, Subpart D - **One Hour**  
C. Electrical, Subpart S - **Two Hours**  
D. Personal Protective Equipment (PPE), Subpart I - **One Hour**  
E. Materials Handling, Subpart N - **Two Hours**  
F. Hazard Communication, Subpart Z - **One Hour**  
G. Hazardous Material (Flammable and Combustible Liquids, Spray Finishing, Compressed Gases, Dipping and Coating Operations), Subpart H  
H. Permit-Required Confined Spaces, Subpart J  
I. Lockout/Tagout, Subpart J  
J. Machine Guarding, Subpart O  
K. Welding, Cutting, and Brazing, Subpart Q  
L. Introduction to Industrial Hygiene, Subpart Z  
M. Bloodborne Pathogens, Subpart Z  
N. Ergonomics  
O. Fall Protection  
P. Safety and Health Programs  
Q. Powered Industrial Vehicles

**EXPECTED LEARNER OUTCOMES:**  
*Upon successful completion of this course:*  
A. The student will be able to explain job/site safety and precautions for job/site hazards  
B. The student will be able to Determine the uses of personal protective equipment (PPE)  
C. The student will be able to Identify the safety equipment and procedures related to safe work practices and environment  
D. The student will be able to Identify fire prevention and protection techniques  
E. The student will be able to Explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS)

**COURSE COMPETENCIES:**  
*Explain job/site safety and precautions for job/site hazards.*  
1. Conduct job site analysis.  
2. Identifies a tasks of job to be performed  
3. List possible hazards related to the task  
4. List precautions that need to be taken to safely perform tasks  

*Determine the uses of personal protective equipment (PPE)*  
5. Describe the type of equipment  
6. Describe the purpose of the equipment
7. Describe benefit of equipment

*Identify the safety equipment and procedures related to safe work practices and environment*

8. Describe industry standards applicable to walkways and working surfaces
9. Describe industry standards fire hazards, protection and plans
10. Describe industry standards electrical hazards, protections and plans
11. Describe industry standards applicable to machine guarding
12. Identify safe lockout and tagout practices
13. Describe industry standards applicable to lifting
14. Explain what assured grounding is
15. Explain when GFCI is needed on a site

*Identify fire prevention and protection techniques*

16. Interpret the fire classification system
17. Identify the three components of a fire triangle
18. Describe the purpose of various fire extinguishers
19. Detail fire hazard potentials and system for preventing them

*Explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS)*

20. Reference appropriate MSDS
21. Identify the various sections of an MSDS and its purpose
22. Identify the section and numbering of a container labeling system

**ASSESSMENT OF LEARNER OUTCOMES:**
Student Progress is evaluated by means that include, but are not limited to, exams, written assignments and class participation.

**SPECIAL NOTES:**
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome at any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty and staff that is free of bigotry and discrimination. KCKCC is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap or veteran status and that such policy be made known.

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of the Academic Resource Center in Rm. 3354 or call (913) 288-7670.