DATE OF LAST REVIEW: 02/2013

CIP CODE: 47.0106

SEMESTER: Departmental Syllabus

COURSE TITLE: Oxy/Acetylene Safety/Usage

COURSE NUMBER: MAPR0135

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 see bookstore for current textbook(s) and other required material.

COURSE DESCRIPTION:
Upon completion of this course the student will be trained and proficient in the safe use of an oxygen/acetylene torch kit. This course must be completed and the student must pass a hands-on evaluation prior to having torch privileges for shop use. This course teaches the safe ignition, handling, and maintenance of oxygen and acetylene tanks, regulators, hoses, and tips.

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

COURSE OUTLINE:
I. Oxy/Acetylene Torch
   A. Cylinders
   B. Regulators
   C. Torch
   D. Lighting Procedure
   E. Out door, In door; Handling/Storage

II. Turbo Torch

III. Propane Torch
IV. M.C. Oxy/Acetylene Kit.

V. Oral Exam/Qualifying

EXPECTED LEARNER OUTCOMES:
A. The student will be able to safely ignite an Oxy/Acetylene torch indoors.
B. The student will be able to safely ignite an acetylene turbo torch indoors.
C. The student will be able to safely ignite a propane torch indoors.
D. The student will be able to inspect and maintain various torches used in appliance technology and repair.
E. The student will be able to demonstrate proper use and function of torches.

COURSE COMPETENCIES:

The student will be able to safely ignite an Oxy/Acetylene torch indoors.
1. The student will be able to safely inspect pressure gauges
2. The student will be able to safely inspect tank security.
3. The student will be able to set hose pressure.
4. The student will be able to wear safety eyewear.
5. The student will be able to safely ignite and adjust flame heat.
6. The student will be able to extinguish flame in the correct sequence.

The student will be able to safely ignite an acetylene turbo torch indoors.
7. The student will be able to safely inspect pressure gauges
8. The student will be able to safely inspect tank security.
9. The student will be able to set hose pressure.
10. The student will be able to wear safety eyewear.
11. The student will be able to safely ignite and adjusts flame heat.
12. The student will be able to extinguish flame in the correct sequence.

The student will be able to safely ignite a propane torch indoors.
13. The student will be able to wear safety eyewear.
14. The student will be able to safely ignite and adjusts flame heat.
15. The student will be able to extinguish flame in the correct sequence.

The student will be able to inspect and maintain various torches used in appliance technology and repair.
16. The student will be able to inspect and maintain various torches used in appliance technology and repair.

The student will be able to demonstrate proper use and function of torches.
17. The student will be able to observe all safety standards of proper torch use.
18. The student will be able to demonstrate the use of the correct torch kit with its associated task.

ASSESSMENT OF LEARNER OUTCOMES:
Assessment methods may include, but are not limited to, the following: Homework, Assignments, Quizzes, Class Participation, Chapter Tests, and Final Exam. The grading scale and the process for calculating the course grades are to be determined by the individual instructors. This information will be included in each instructor’s syllabus.

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 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. Kansas City Kansas Community College 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.