

COURSE SYLLABUS

LAST REVIEW	Fall 2022
COURSE TITLE	EPA 608
COURSE NUMBER	BEMT 0220
DIVISION	Career and Technical Education
DEPARTMENT	BEMT
CIP CODE	46.0401
CREDIT HOURS	1
CONTACT HOURS/WEEK	Class: 1
PREREQUISITES	BEMT 0201

COURSE DESCRIPTION

This course will help to prepare you to take the Environmental Protection Agency (EPA) Section 608 certification. The test will be given after 3 days of study and review. This is a must have class if you want to work around refrigerants. The certification is good for a lifetime.

PROGRAM LEARNING OUTCOMES

Students will demonstrate an adherence to safety standards and proficiency in the installation or repair of residential electrical, plumbing, HVAC, exterior building materials, roofing, irrigation systems, landscape/hardscape, concrete placement and finish, masonry install and repair.

TEXTBOOKS

<http://kckccbookstore.com/>

METHODS 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, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE

- I. Ozone Depletion and Global Warming
- II. Refrigerant Oils and their applications.
- III. Regulations
- IV. Test

COURSE LEARNING OUTCOMES AND COMPETENCIES

Upon successful completion of this course, the student will:

- A. Describe ozone depletion and global warming.
 - 1. Explain ozone depletion and its consequences.
 - 2. Describe the Clean Air Act No Venting Law.

- B. Describe the difference between refrigerant oils and their applications
 - 3. List service procedures.
 - 4. Identify substitute refrigerants and oils.
 - 5. Describe general safety procedures.

- C. Describe the rules and regulations of the EPA section 608.
 - 6. Identify the legal handling of refrigerants.
 - 7. Identify cooling equipment components and basic refrigeration theory.
 - 8. Identify EPA regulations.

- D. Complete and pass the EPA section 608 test.
 - 9. Describe refrigerant cylinder safety procedures.
 - 10. Identify equipment, service requirements, recovery procedures, and safety procedures for Type I technicians (small appliances), Type II technicians (high pressure systems), and Type III technician (low pressure systems).
 - 11. Take Exam: EPA Section 608.

ASSESSMENT OF COURSE LEARNING OUTCOMES AND COMPETENCIES

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

COLLEGE POLICIES AND PROCEDURES

Student Handbook

<https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf>

College Catalog

<https://www.kckcc.edu/academics/catalog/index.html>

College Policies and Statements

<https://www.kckcc.edu/about/policies-statements/index.html>

Accessibility and Accommodations

<https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html>.