

COURSE SYLLABUS

LAST REVIEW	Fall 2022
COURSE TITLE	EPA 608
COURSE NUMBER	HVAC 0220
DIVISION	Career and Technical Education
DEPARTMENT	HVAC
CIP CODE	47.0201
CREDIT HOURS	1
CONTACT HOURS/WEEK	Class: 1 Lab:
PREREQUISITES	None

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 life time.

PROGRAM ALIGNMENT

This course is part of a program aligned through the Kansas Board of Regents and Technical Education Authority. For more information, please visit:

https://kansasregents.org/workforce_development/program-alignment

PROGRAM LEARNING OUTCOMES

1. The student will be able to demonstrate the ability to perform HVAC procedures in a safe manner
2. The student will be able to classify the different needs of equipment and summarize a solution.
3. The student will be able to exhibit a high level of professionalism including appropriate dress, attendance, communication skills and other soft skills necessary.

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>.