



Wayne County Community College District

COURSE SYLLABUS

HVA 103 Commercial Refrigeration

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION: This course covers application, installation and servicing of commercial-industrial refrigeration, including operating and testing of low, medium and high temperature systems and the types of refrigeration equipment needed to obtain large cooling requirements. In addition, emphasis is placed on dehydration, refrigerant, charging, recovery, recycling and reclamation procedures, as well as techniques using a multiuse recovery/recycling machine. This course provides training necessary for the EPA certification exam.

PREREQUISITES: HVA 101

COREQUISITES: HVA108

EXPECTED COMPETENCIES:

Upon completion of this course, the student will be familiar with:

- Properly demonstrate application, installation and servicing of commercial-industrial refrigeration equipment
- Properly demonstrate operating and testing of low, medium and high temperature refrigeration systems
- Understand and demonstrate knowledge in refrigerant recovery systems including the safe use of equipment

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E