



Wayne County Community College District

COURSE SYLLABUS

HVA 110 Force Air & Hydronic Heating

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION: This course covers application, installation and service of steam and hydronic heating systems, including equipment selection, layout, construction, testing, adjusting and troubleshooting. Radiant Heating Systems are also studied.

PREREQUISITES: HVA 106

EXPECTED COMPETENCIES:

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

- Understand the fundamentals of forced air heating, burner controls and components, safety controls, and the principles of water flow in hydronic systems
- Identify local heating codes on forced air and hydronic heating systems including piping arrangements, aquastats, pressure controls, and troubleshooting and installation practices

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