



Wayne County Community College District

COURSE SYLLABUS

HVA 200 Introduction to Boiler Plant Maintenance

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:

This course examines low pressure boilers found in residential and light commercial applications. Topics covered include boiler construction, boiler fittings, steam tables, steam cycles, feed water system, fuel system, draft system, boiler water treatment, and principles of boiler operation and boiler operator procedures.

PREREQUISITES: HVA 106

EXPECTED COMPETENCIES:

Upon successful completion of the course, the student will:

- Student will understand safe and efficient boiler operation practices including start-up, shut-down, preparation for inspection, smoke control, combustion control, flame sensing, and venting
- Student will demonstrate knowledge of boiler appliances and auxiliaries, feed pumps, regulators, alarms, safety valves, gauges and performance indicator devices
- Student will become familiar with ASME, State and local codes
- Student will establish a foundation which will lead to taking licensing exam for high pressure boiler license

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