CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION: This course examines high pressure fire tube and water tube boilers along with their various applications. Topics covered include boiler design and construction, boiler fittings, steam and water auxiliaries, fuel burning equipment, draft, instrumentation and combustion controls, boiler water treatment, steam boiler operation and licensing.

PREREQUISITES: HVA 106

EXPECTED COMPETENCIES:
Upon completion of this course, the student will be familiar with:
- Student will understand the major distinctions between low and high pressure boilers
- Student will understand and demonstrate knowledge of feed water regulators, injectors, steam header and blow down valve configurations and operation procedures
- Student will understand applicable auxiliaries and accessories for steam plant size and operation
- Student will build a steady knowledge base aimed at licensing requirements for high pressure boiler operation

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