Hibbing Community College

HCT 1540: Oil Heating Systems

A. COURSE DESCRIPTION

Credits: 2
Lecture Hours/Week: 1
Lab Hours/Week: 2
OJT Hours/Week: *.*
Prerequisites:
This course requires the following prerequisite
  HCT 1500 - Introduction to Electricity
Corequisites: None
MnTC Goals: None

Oil Heating Systems covers the operating principles of forced air oil-fired heating equipment. Combustion theory, component identification, operating characteristics troubleshooting, repair and maintenance of fuel oil burners will be covered.

B. COURSE EFFECTIVE DATES: 08/26/2013 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Combustion Theory
2. Mechanical
3. Electrical
4. Maintenance

D. LEARNING OUTCOMES (General)

1. Students will describe various types of fuel oil.
2. Students will list products produced as a result of combustion of fuel oil.
3. Students will identify the components of a fuel oil burner.
4. Students will trace a basic wiring diagram of the oil burner primary control.
5. Students will perform testing procedures used to determine oil burner efficiency.
6. Students will list steps for a yearly clean and check.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus
G. SPECIAL INFORMATION

HCC COMPETENCIES MET:
Working Productively and Cooperatively
Thinking Creatively and Critically

STUDENT CONTRIBUTIONS:
The student is expected to attend all lectures and working sessions, participate in activities and discussions, listen to and follow directions, complete assignments on time and request assistance when needed. Each student is expected to spend the necessary time to become adept at the procedures and their applications. At all times the student is expected to demonstrate and exercise safety skills and procedures.

METHODS FOR EVALUATING STUDENT LEARNING:
Exams, quizzes, outside assignments, class attendance/participation, group discussions, behavioral observations, simulations and other learning experiences will be translated to points earned. Letter grades A-F will be earned based on points earned.

AASC APPROVAL DATE: January 17, 2018
REVIEW DATE: January 2023