

**MARTIN COMMUNITY COLLEGE
COURSE SYLLABUS**

Semester/Year: Spring 2011

COURSE NUMBER: AHR 160

INSTRUCTOR: Don Golden

COURSE TITLE: Refrigerant Certification

OFFICE NO: Building 3, Room 20

CREDIT HOURS: 1

OFFICE/VIRTUAL HOURS: 10:00 - 12:00 T,Th

CONTACT HRS/WK: 1

PHONE NO: (252) 789-0271

PREREQUISITES: None

FAX: (252) 792 - 0826

COREQUISITES: None

E-MAIL: dgolden@martincc.edu

COURSE DESCRIPTION: This course covers the requirements for the EPA certification examinations. Topics include small appliances, high pressure systems, and low pressure systems. Upon completion, students should be able to demonstrate knowledge of refrigerants and be prepared for the EPA certification examinations.

PROGRAM LEARNING OUTCOMES:

1. Install, service, and troubleshoot air conditioning, heating, and refrigeration systems and associated components.
2. Select and properly use a variety of air conditioning, heating, and refrigeration tools and equipment.
3. Prepare and interpret electrical, mechanical, and piping drawings.

COURSE LEARNING OUTCOMES:

1. Define Recover, Recycle, and Reclaim procedures.
2. Identify Leak Repair requirements.
3. Determine proper recharging techniques.

REQUIRED TEXTBOOKS: ESCO Institute (2002). EPA Certification Exam Preparatory Manual. Mount Prospect, IL: 2002 ESCO Press.

SUPPLEMENTAL RESOURCES: Calculator, Highlighters, safety glasses, and lab tools.

LEARNING/TEACHING METHODS: Lectures, student discussions, Supplemental information, projects as assigned, Internet assignments, class Participation, written assessment evaluations, and assigned readings, and Outside reading assignments.

ASSESMENTS/METHODS OF EVALUATION:

1. Homework /Labs assignments
2. Outside reading assignment
3. Chapter tests
4. Final Exam

GRADING POLICY:

A = 93 - 100
B = 85 - 92
C = 77 - 84
D = 70 - 77
F = 69 and below

Homework	20%
Outside Reading Assignments	20%
Projects	20%
Tests	20%
Final Exam	20%

COURSE OUTLINE:

Week 1 - Core Information and test
Type I
Type II
Type III
Review for exam
EXAM

STUDENT ATTENDANCE POLICY:

Regular and prompt attendance is expected in class. When a student is absent for reasons of illness or emergency, he/she is responsible for course work missed and should consult with the instructor at the next meeting of the class. Class notes should be obtained from a classmate. Attend class regularly. A strict attendance policy is necessary since many of the projects and learning will occur during class time. Attendance means staying for the entire class period, not leaving. The maximum number of hours that may be missed is based on the 20% rule. If a student misses more than 20% of class room hours they will receive an F. Anyone unable to attend a course at least 80% of the time, should reconsider taking the course. Students unwilling or unable to finish the course should withdraw. This is the students' responsibility. Punctuality will also be considered in grade assignment. Chronic tardiness is rude. It is also disruptive to the class and limits the student's opportunity to learn. If the student is unable to be punctual, he/she should consider restructuring his/her schedule in order to attend, or withdraw. Chronic lateness will be considered as nonattendance. In order to drop this class, the student must initiate the process rather than simply disappearing from

COURSE POLICIES: Due to the nature of this field, you will quite often be involved in situations where you could be exposed to mechanical, electrical, and chemical hazards. Safety will be the priority of each student. Safety information and procedures in your textbook will always be followed. More detailed safety information will be discussed throughout the term of this course.

REQUEST FOR EXCUSED ABSENCES FOR RELIGIOUS OBSERVANCES*

***In compliance with G.S. 115D-5, MCC policy permits a student to be excused, with the opportunity to make-up any test or other missed work, a minimum of two excused absences per academic year for religious observances required by the student's faith. The policy limits the excused absences to a maximum of two days per academic year.**

Students who wish to be excused for a Religious Observance required by their faith must complete and submit a request form to the instructor(s) prior to the census date of each class. The *Request for Excused Absences for Religious Observances* form can be picked up from Student Services. This does not supersede the college-wide

attendance policy as outlined in the college catalog or syllabus, with the exception of a reasonable accommodation for the make-up of missed course work.

If you cannot reach your instructor, you may contact Dr. Phyllis Broughton, Dean of Academic Affairs and Student Services at (252)789-0246 by phone, pbroughton@martincc.edu by e-mail, or in person at her office in Building 2, Room 33.

To access the Martin Community College Career Catalog for policies and curriculum requirements, please go online to www.martincc.edu.

If you have a need for a disability-related accommodation, please notify the Student Services counselor at (252)789-0293.