

**Common Course Outline**  
**AIRC 121**  
**EPA Refrigerant Certification Preparatory Course and Test**  
**1 Semester Hour**

**The Community College of Baltimore County**

**Description**

**AIRC 121 – 1 Credit – EPA Refrigerant Certification Preparatory Course and Test** reviews the Environmental Protection Agency (EPA) regulations and procedures to properly handle refrigerants and prepares students for the EPA Technician Examination. Field experience is beneficial as the topics are covered quickly and assumes the student has prior knowledge. An additional fee is required for the test.

**1 Credit:** 1 lecture hour

**Prerequisites:** AIRC 115 or approval of program coordinator  
EPA Certification Test fee required

**Overall Course Objectives**

Upon completion of this course the student will be able to:

1. list the various levels of certification and how they apply to HVAC equipment;
2. describe the global impact of certification;
3. follow proper techniques to minimize any refrigerant release as allowed;
4. practice safe working conditions and precautions when working with refrigerants; and
5. prepare for test as given in accordance with EPA standards.

**Major Topics**

- I. History of standards
- II. Level of certification
- III. Refrigerant systems and refrigerants
- IV. Safety and environment
- V. Certification test

**Course Requirements**

**Grading/exams:** Grading procedures will be determined by the individual faculty member and will be provided on the first day of class.

The following will be required for this course:

1. One (1) – two (2) quizzes
2. One (1) – two (2) homework assignments.
3. Attendance and participation

4. Final day of class the EPA Certification test is given in accordance with federal standards

**Other Course Information**

This course is a Heating, Ventilating, Air Conditioning and Energy program requirement and Advanced Certificate core course.