

REFRIGERATION AND AIR CONDITIONING

PROGRAM DESCRIPTION

The **Refrigeration and Air Conditioning** program prepares the student with the skills and knowledge used for careers in the refrigeration and air conditioning industry. Students learn how to assemble, maintain, and repair refrigeration and air conditioning systems according to the code specifications of the National Fire Protection Association. The safe and efficient use of tools and materials is stressed as students work in a shop and at a one-week co-op with different types of refrigeration and air conditioning systems. Instruction in the related skills of blueprint reading, mathematics, soldering, and electrical applications is included.

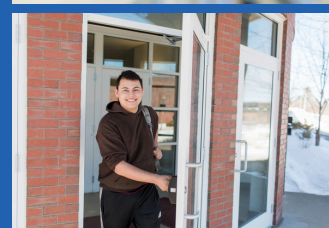
Career OPPORTUNITIES

Upon successful completion of the program, graduates are eligible to take the State of Maine journeyman oil burner license examination and are qualified for employment with refrigeration and air conditioning contractors, HVAC companies, in maintenance positions, or as sales personnel. Additional experience may provide graduates with opportunities as managers, supervisors, or operators of their own business.

PROGRAM OUTCOMES

1. Operate and maintain tools and test equipment.
2. Analyze and troubleshoot equipment.
3. Identify and adhere to propane industry standards, safety codes, and regulations.
4. Service and repair Refrigeration and Air Conditioning equipment.
5. Assemble, maintain, and repair Refrigeration and Air Conditioning systems according to code specifications of the National Fire Protection Association.
6. Safely and efficiently use tools and materials required for operation of Refrigeration and Air Conditioning systems.
7. Understand and apply knowledge of blueprint reading, mathematics, soldering, and electrical applications related to heating systems.
8. Demonstrate eligibility to take the State of Maine journeyman oil burner license examination.
9. Qualified for employment with heating contractors, fuel oil companies, in maintenance positions, or as sales personnel.

Washington County Community College is an equal opportunity/affirmative action institution and employer. For more information; please call Tatiana Osmond, Affirmative Action Officer, at 454-1094



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Use this QR code or go to wccc.me.edu/apply.

Refrigeration and Air Conditioning Course Curriculum

Certificate

32 Credit Hours

Course #	Certificate Option – Semester 1 & 2	Credits
Semester 1		
AEDD 124	Print Reading, Sketching and Intro to CAD	3
CLGE 100	First Year Experience	1
ENGL 101	College Composition	3
HVAC 100	Heating Technology I	10
Total		17
Semester 2		
HVAC 105	Electricity in the HVAC Industry	3
HVAC 110	Heating Technology II	9
MATH 106	College Mathematics for Technologies	3
PSYC 100	Introduction to Psychology	3
Total		16
Course #	Required for Associate Degree HVAC Option	
Semester 3		
ENGL 102/ COMM 107	Technical Writing/Speech	3
ELECTIVE	Elective	3
HVAC 120	Refrigeration and Air Conditioning I	10
Total		16
Semester 4		
PHYS 150	Physics	4
HVAC 130	Refrigeration and Air Conditioning II	9
Total		13

Cost per credit hour is \$96. For more information visit: <https://wccc.me.edu/admissions-aid/finances/tuition-fees/>
 Financial Aid is available for students who qualify at www.FAFSA.Ed.Gov School Code: 009231

Visiting the campus is easy. Contact the Office of Admissions at 207-454-1000 or wcccadmissions@maineccc.edu to schedule a time to visit!
 For more program specific information, please contact the program instructor Ethan Hafford, ehafford@maineccc.edu or 207-454-1072