

COMMERCIAL REFRIGERATION, SC

Program Description

The Skills Certificate, Commercial Refrigeration will help prepare students for entry-level positions to install, service, or repair commercial refrigeration systems. Students will gain a basic knowledge of electrical systems and components, schematic reading, and troubleshooting techniques in commercial refrigerations. Students must pass all courses with a score of 70% or higher. This skills certificate will prepare students to take certification exams for HVAC/R Excellence-Electrical and HVAC/R Excellence-Commercial Refrigeration.

This program is not eligible for financial aid. However, it may be eligible for scholarship funding if the student is awarded scholarships.

Air Conditioning Career Map (<https://sites.tmcc.edu/flipbook/career-maps/>)

Recommended Course Schedule

1st semester		Units
AC 102	Refrigeration Theory	3
AC 107	Electrical and Controls for HVAC	6
AC 113	Schematic Reading for HVAC/R	3
Semester Total		12
2nd semester		Units
AC 150	Basic Refrigeration Servicing	6
AC 200	Commercial Refrigeration I	6
Semester Total		12
Total Units		24

Program Requirements

Skills Certificates can consist of a single course or a short set of courses that provide training for entry-level positions or career advancement. These short-term certificates may also prepare students to take state, national and/or industry-recognized certifications or licensing exams.

Skills certificates are awarded upon completion of coursework and marked on a student's transcripts at the end of the semester. Students cannot declare a skills certificate as one's major. Skills Certificates are not eligible for Financial Aid.

To earn a skills certificate, students must:

1. Maintain a minimum cumulative GPA of 2.0.
2. Have no financial or library obligation to the college.

Code	Title	Units
Certificate Requirements		
AC 102	Refrigeration Theory	3
AC 107	Electrical and Controls for HVAC	6
AC 113	Schematic Reading for HVAC/R	3
AC 150	Basic Refrigeration Servicing	6

AC 200	Commercial Refrigeration I	6
Total Units		24

Program Outcomes

Students completing the certificate will:

PSLO1: Identify, troubleshoot, and repair commercial refrigeration units.

PSLO2: Identify, explain, and apply design techniques to commercial Refrigeration systems.

PSLO3: Identify, explain, and apply service and repair techniques to commercial refrigeration systems.