



# Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R)

**Short Description:** This program includes designing, testing, and repairing heating, ventilation, air-conditioning/refrigeration (HVAC/R) systems for both commercial and residential systems.

**Program Content:** The purpose of this program is to prepare students for employment or advanced training in the heating, ventilation, air-conditioning/refrigeration (HVAC/R) industry. The student should obtain EPA certification prior to leaving school to be employed in any job that requires work with refrigerants. This program focuses on broad, transferable skills, stresses the understanding of the heating, air-conditioning, refrigeration, and ventilation industry, and demonstrates elements of the industry such as planning, management, finance, technical and production skills, the underlying principles of technology, and health, safety, and environmental issues.

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Architecture and Construction career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Architecture and Construction career cluster.

The content includes but is not limited to designing, testing, and repairing heating, ventilation, air-conditioning/refrigeration (HVAC/R) systems.

**Admissions:** 1. Apply to MTC at <https://manateetech.edu/apply-now/>. Submit your application to access your "To-Do List." You are not accepted into the program after applying, you must complete your do list.  
2. Complete your "To-Do List" at <https://www.MTCdashboard.net>.  
Note: The Basic Skills Assessment must be taken within 6 weeks of you admit date unless exemption criteria have been documented per State Statute. For exemption information, see the Student Handbook located here: <https://www.manateetech.edu/quick-docs/>

**Length of Program:** Full-time 1350 hours – approximately 12 months full-time to complete.

<b>OCP</b>	<b>COURSE</b>	<b>HOURS</b>
A	Introduction to HVAC/R – ACR0000	250
B	HVAC/R Fundamentals – ACR0001	250
C	HVAC/R Service Practices – ACR0012	250
D	HVAC/R Intermediate Service Practices – ACR0013	250
E	HVAC/R Advanced Service Practices	350

**Dual Enrollment:** Yes

**Certification/Licensure:** HVAC Excellence Employment Ready-Electrical, HVAC Excellence Employment Ready-Air Conditioning, HVAC Excellence Employment Ready-Heat Pump, EPA Section 608 Certification

**CTSO:** SkillsUSA and/or HOSA are the approved cocurricular career and technical student organizations which provide activities for students as an integral part of the instruction by providing leadership training and reinforcing specific career and technical skills.

**Articulation:** May be available towards credits at Florida public colleges/universities. Speak with a Career Counselor for more information.

**Location:** MTC Main Campus, 6305 State Road 70 East, Bradenton, FL 34203. Tel 941.751.7900

<b>Program #C400400</b>		<b>CIP# 0615050110</b>
Estimated Tuition, Lab, and Fees ( <i>includes \$60.00 administrative fee</i> )		\$5,091.00
<b>Additional Fees Due Prior to Admittance</b>		
Application Fee		\$45.00
<b>Bookstore</b>		
Textbook(s)*		\$224.39
Uniform* (2 shirts recommended \$32 ea.)		\$64.00
<b>Additional Required Items (Outside Vendor)</b>		
Closed-toe shoes (boots, sneakers, etc.) - <i>estimate</i>		\$60.00
Mechanic style work gloves - <i>estimate</i>		\$15.00
Long pants (no sweatpants or pajama pants) – <i>estimate</i>		\$30.00
Composition Notebook 8x10– <i>estimate</i>		\$5.00
Pencils, pens, highlighters – <i>estimate</i>		\$10.00
Safety Glasses – <i>estimate</i>		\$15.00
<b>Estimated Total Cost of Program</b>		<b>\$5,559.39</b>

**Start Date:** August, January

**Start Time:** Monday - Friday, 8:00 a.m. – 3:00 p.m.

**For More Information:** Scan QR CODE at the bottom of document.

***Financial aid available depending on student's eligibility.***

\*Uniforms may be covered, for Pell eligible students once aid has been applied to all tuition & fee charges.

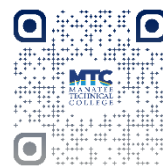
All pre-admission fees are non-refundable and not covered by Financial Aid. \*Prices are subject to change.

Annual fees (charged each academic year from July 1—June 30).

Textbook estimate. Current book list and prices: <https://manateetech.edu/current-students/bookstore/>

Tuition is \$2.92 per hour for Florida residents. Tuition is \$11.71 per hour for non-Florida residents.

<https://www.manateetech.edu/admissions/financial-aid/>



**941.751.7900**

**ManateeTech.edu**