HVAC/R TECHNICIAN

Overview

HVAC/R Technician Technical Diploma

Program Code: 31-401-4

For more information: wctc.edu/hvac-r (https://www.wctc.edu/WCTC/Academics/Program-List/Refrigeration-Air-Conditioning-Heating-Service-Technician/)

Heating, ventilation and air conditioning systems are critical in residential, commercial and industrial settings, and this field is one of the fastest-growing skilled trades. In this program, learn to safely install, maintain and service HVAC equipment.

The minimum required course grades and program grade point average (GPA) for students under this catalog are:

Core Courses = C General Studies Courses = C-Program GPA = 2.0

Learning Outcomes Program Outcomes

- 1. Install HVAC/R components.
- 2. Service HVAC/R systems.
- 3. Troubleshoot HVAC/R systems.
- 4. Select equipment to install for an R/ACHST system.
- 5. Interpret R/ACHST drawings.

Critical Life Skills

To help our students prepare for success in a workplace and society that is **increasingly global, multicultural and collaborative**, we provide curricular and co-curricular opportunities to develop critical life skills. WCTC is committed to teaching all students the following skills:

- · Communication: Demonstrate appropriate communication.
- Critical Thinking/Problem Solving: Demonstrate critical thinking skills to analyze situations and solve problems.
- Relationships: Demonstrate effective interpersonal skills.
- · Self-management: Demonstrate responsible and respectful behavior.

Required Courses

Listed below are the required courses for the program. To view the recommended sequence for taking courses click on the plan of study tab(s) above. Work with your Academic Advisor to design a program plan!

Click Here to see when each course will be offered (term and time of day).

Title	Credits	
Air Cond Refr Fundamentals	2	
ute: 401-340		
Air Cond Refr Controls	1	
Approved Substitute: 401-340		
Air Conditioning Installation	2	
	Air Cond Refr Fundamentals ute: 401-340 Air Cond Refr Controls ute: 401-340	

Approved Substitute: 401-335

Total Credits		28
Approved Sub	stitutes: 801-136 OR 801-223 OR 801-196	
801-311	Communication in the Workplace	2
General Studies		
Approved Substi	tute: 401-320	
401-332	Commercial HVAC	1
Approved Sub	estitute: 401-325	
401-331	HVAC Design	2
Approved Sub	estitute: 401-320	
401-329	Heating Sys Troubleshooting	1
Approved Sub	stitute: 401-320	
401-328	Advanced HVAC Controls	1
Approved Sub	ostitute: 401-355	
401-327	Heating System Application	2
Approved Sub	ostitute: 401-355	
401-326	Hydronic Htg System Install	1
Approved Sub	estitute: 401-330	
401-324	Forced Air Htg System Install	2
Approved Sub	ostitute: 401-350	
401-323	Heating Controls	1
Approved Sub	estitute: 401-350	
401-322	Heating Systems Fundamentals	2
Approved Substi	,	
401-321	Psychrometrics	1
Approved Sub	estitute: 401-335	
401-319	Air Cond Troubleshooting	2
	estitute: 401-330	
401-318	Piping for HVAC	1
Approved Substi		•
401-317	Heat Pumps	1
Approved Substi	* ''	2
401-316	stitute: 401-325 Air Conditioning Application	2
401-308	Air Conditioning Air Flow	1
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Full-time, Fall Start Plan

First Year Fall Term 1 Credits Communication in the Workplace This course 801-311 2 will run 16 weeks. Air Cond Refr Fundamentals 2 401-305 Air Cond Refr Controls 401-306 1 401-307 Air Conditioning Installation 2 401-308 Air Conditioning Air Flow 1 401-318 Piping for HVAC 1 9 Credits Fall Term 2 401-316 Air Conditioning Application 2 401-317 **Heat Pumps** 1 2 401-319 Air Cond Troubleshooting

401-321	Psychrometrics	1
	Credits	6
Spring Term 1		
401-332	Commercial HVAC This course will run 16 weeks.	1
401-322	Heating Systems Fundamentals	2
401-323	Heating Controls	1
401-326	Hydronic Htg System Install	1
401-331	HVAC Design	2
	Credits	7
Spring Term 2		
401-324	Forced Air Htg System Install	2
401-327	Heating System Application	2
401-328	Advanced HVAC Controls	1
401-329	Heating Sys Troubleshooting	1
	Credits	6
	Total Credits	28

401-329	Heating Sys Troubleshooting	1
	Credits	4
	Total Credits	28

Full-time, Spring Evening Start Plan

First Veer	3	
First Year		0
Spring Term 1	This course will run	Credits
401-319	Air Cond Troubleshooting ^{This course will run} 16 weeks.	2
401-305	Air Cond Refr Fundamentals	2
401-306	Air Cond Refr Controls	1
401-308	Air Conditioning Air Flow	1
801-311	Communication in the Workplace ^{Take this} Term or Fall Term 1	2
	Credits	8
Spring Term 2		
401-316	Air Conditioning Application	2
401-317	Heat Pumps	1
401-321	Psychrometrics	1
	Credits	4
Summer Interim		
401-331	HVAC Design	2
	Credits	2
Summer Term		
401-307	Air Conditioning Installation	2
401-318	Piping for HVAC	1
401-326	Hydronic Htg System Install	1
	Credits	4
Fall Term 1		
401-327	Heating System Application ^{This course will} run 16 weeks.	2
401-322	Heating Systems Fundamentals	2
401-323	Heating Controls	1
401-328	Advanced HVAC Controls	1
	Credits	6
Fall Term 2		
401-324	Forced Air Htg System Install	2
401-332	Commercial HVAC	1