



For more information contact:  
Hazard Community & Technical College  
101 Vo-Tech Drive  
Hazard, KY 41701  
Phone: 606-487-3300 or Fax: 606-435-6086  
Email: adams.doug@kctcs.edu

All applicants meeting the appropriate academic requirement and technical standards shall be considered equally for admission to a community college or any academic program thereof regardless of race, color, religion, sex, marital status, beliefs, national origin, age, sexual orientation, or physical or mental disability.

#### How to Apply

Please submit the following items to the Admissions Office

1. A completed HCTC admissions application.
2. Official high school transcripts or GED scores, as applicable.
3. Official transcripts from other non-KCTCS colleges or institutions you have attended, if applicable.
4. ACT scores, if available. If you have not taken the ACT or you did not receive an *18 or higher* in Writing, Reading, and/or Mathematics sections, you must take the COMPASS placement test, which is given at HCTC.

To contact the Admissions Office, call  
800-246-7521, Ext. 73311.

[www.Hazard.kctcs.edu](http://www.Hazard.kctcs.edu)



# Air Conditioning Technology



# Mission Statement

Hazard Community and Technical College delivers accessible, high-quality education by providing academic programs, technical education, and training in a learning-centered environment. The College provides learners with varied experiences while supporting their transfer to other colleges and universities; training for employment; entrepreneurial, economic, cultural, and leadership opportunities; and collaborative efforts with other schools and institutions.

Hazard Community and Technical College values excellence in teaching, lifelong learning, and service with the highest regard for ethics and the dignity of work, the heritage of Appalachia, and a shared appreciation for cultural diversity.

Hazard Community and Technical College, a member of the Kentucky Community and Technical College System, is a public, comprehensive learning community serving southeastern Kentucky.

## Certificate: Refrigeration Mechanic

ACR 100 Refrigeration Fundamentals	3
ACR 101 Refrigeration Fundamentals Lab	2
ACR 102 HVAC Electricity	3
ACR 103 HVAC Electricity Lab OR Elective (Technical)	1 (3)
ACR 130 Electrical Components	3
ACR 131 Electrical Components Lab	2
ACR 200 Commercial Refrigeration	3
ACR 201 Commercial Refrigeration Lab	2
ACR 210 Ice Machines	3
ACR 250 Cooling and Dehumidification	3
ACR 251 Cooling and Dehumidification Lab	2
Total Credits 27-29	

### NOTES:

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**Certificate: Environmental Control System Servicer**

ACR 100	Refrigeration Fundamentals	3
ACR 101	Refrigeration Fundamentals Lab	2
ACR 102	HVAC Electricity	3
ACR 103	HVAC Electricity Lab OR Elective (Technical)	1 (3)
ACR 130	Electrical Components	3
ACR 131	Electrical Components Lab	2
ACR 250	Cooling and Dehumidification	3
ACR 251	Cooling and Dehumidification Lab	2
ACR 260	Heating and Humidification	3
ACR 261	Heating and Humidification Lab	2
Total Credits		24-26

**Certificate: Environmental System Repair Helper**

ACR 100	Refrigeration Fundamentals	3
ACR 101	Refrigeration Fundamentals Lab	2
ACR 102	HVAC Electricity	3
ACR 103	HVAC Electricity Lab OR Elective (Technical)	1 (3)
ACR 130	Electrical Components AND	(3)
ACR 131	Electrical Components Lab	(2)
Total Credits		9-13

**Certificate: Domestic Air Cond. and Furnace Installer**

ACR 100	Refrigeration Fundamentals	3
ACR 101	Refrigeration Fundamentals Lab	2
ACR 102	HVAC Electricity	3
ACR 103	HVAC Electricity Lab OR Elective (Technical)	1 (3)
ACR 130	Electrical Components	3
ACR 131	Electrical Components Lab	2
ACR 170	Heat Load/Duct Design	3
ACR 250	Cooling and Dehumidification	3
ACR 251	Cooling and Dehumidification Lab	2
ACR 260	Heating and Humidification	3
ACR 261	Heating and Humidification Lab	2
ACR 270	Heat Pump Application	3
ACR 271	Heat Pump Application Lab	2
ACR 290	Journeyman Preparation	3
Total Credits		35-37

# General Information

**Cool Training for a Hot Career**

Become part of an increasingly important industry. Work for an established air conditioning and refrigeration service – or start one of your own! This program teaches you how to operate, install, and service air conditioning and refrigeration equipment, and more.

Controlling indoor climates will always be important in private homes, businesses, industrial plants, schools, medical buildings, and government facilities. People rely on heating, air conditioning, and refrigeration systems to operate smoothly, regardless of the economy's health. No wonder the outlook for skilled, experienced professionals in the HVAC field appears bright!

Do you enjoy working with your hands? Do you have a good "mechanical sense"? If so, you could do well in The Air Conditioning Technology Program. It's an ideal way to learn the fundamentals of servicing and repairing heating, ventilation, air conditioning, and refrigeration systems.

The employment opportunities are very good. The new technician can enter the residential, commercial, and industrial fields.

**Hazard Community and  
Technical College**

**The Associate of Applied Science  
Degree in General  
Occupational/Technical Studies Guidelines**

In order to receive this degree you must do the following:

Complete general education components (15 credit hours minimum in specified areas – Mathematics, Natural Sciences, Social/ Behavioral Sciences, Humanities/ Fine Arts, Writing/Accessing Information)

Complete computer literacy.

Complete 42 - 58 credit hours of technical course work (Industrial Technology, Business Technology, Health and Human Services or other).

Verify residency requirements – at least 25% of the approved curriculum credits (15 – 19 credit hours) must be completed at the institution granting the degree (degree total 60 – 76 credit hours)

Develop learner degree completion plan.

Technical courses to be utilized in this degree will be taken from the list of approved technical courses at Hazard Community and Technical College.

\*Listing of General Education Requirements may be found in KCTCS catalog.

**Hazard Community and Technical College  
Technical Campus  
Air Conditioning Technology**

Installing and servicing heating, air conditioning and refrigeration equipment is the focus of this program. Academic courses, theory courses, and laboratory experiences are designed to promote success in the air conditioning field.

GRADUATION REQUIREMENTS— Diploma:  
Heating, Ventilation, and Air Conditioning Mechanic

Course	Code	Title	Credit Hours
ACR	100	Refrigeration Fundamentals	3
ACR	101	Refrigeration Fundamentals Lab	2
ACR	102	HVAC Electricity	3
ACR	103	HVAC Electricity Lab	1
		Electives (Technical)	(3)
ACR	130	Electrical Components	3
ACR	131	Electrical Components lab	2
ACR	170	Heat Load/Duct Design	3
ACR	250	Cooling and Dehumidification	3
ACR	251	Cooling and Dehumidification Lab	2
ACR	260	Heating and Humidification	3
ACR	261	Heating and Humidification	2
ACR	270	Heat Pump Application	3
ACR	271	Heat Pump Application Lab	2
ACR	290	Journeyman Preparation	3
ACR	299	Cooperative Education	2
CIS	100	Introductions to Computers	3
MTH	110	Applied Mathematics* <b>OR</b>	3
EFM	100	Personal Financial Management	(3)
WPP	200	Workplace Principles* <b>OR</b>	3
EFM	100	Personal Financial Management	(3)
		Electives (Technical)	8

TOTAL CREDIT HOURS REQUIRED 54-56

\*Curriculum committee in process of changing mathematics requirement.