

# HEATING, VENTILATION, AND AIR CONDITIONING MECHANIC - DIPLOMA

**Offered at:** Ashland Community and Technical College, Big Sandy Community and Technical College, Bluegrass Community and Technical College, Elizabethtown Community and Technical College, Gateway Community and Technical College, Hazard Community and Technical College, Jefferson Community and Technical College, Madisonville Community College, Maysville Community and Technical College, Owensboro Community and Technical College, Somerset Community College, Southcentral Kentucky Community and Technical College, Southeast Kentucky Community and Technical College, West Kentucky Community and Technical College

**Program Plan Number:** 4702014009

Course	Title	Credits
<b>General Education</b>		
<i>Area 1</i>		
Select one of the following three options:		3
Written Communication		
Oral Communications		
Humanities/Heritage		
<i>Area 2</i>		
Select one of the following three options:		3
Social/Behavioral Sciences		
Natural Sciences		
Quantitative Reasoning		
Subtotal		6
Digital Literacy Course or demonstrated competency <sup>1</sup>		0-3
ACR 100	Refrigeration Fundamentals	3
ACR 101	Refrigeration Fundamentals Lab	2
Select one of the following two options:		4-5
ACR 102 & ACR 103	HVAC Electricity and HVAC Electricity Lab	
Comparable Electrical Course		
ACR 130	Electrical Components	3
ACR 131	Electrical Components Lab	2
ACR 170	Heat Load/Duct Design	3-4
or ACR 209	Manual N Commercial Load Calculation and Design	
ACR 250	Cooling and Dehumidification	3
ACR 251	Cooling and Dehumidification Lab	2
ACR 260	Heating and Humidification	3
ACR 262	Heating and Humidification Lab	2
Select one of the following two options:		5
ACR 270 & ACR 271	Heat Pump Application and Heat Pump Application Lab	
ACR 207	Commercial HVAC Systems	
ACR 291	Special Problems I	1-2
or ACR 298	Practicum	
Electives		9-12

Subtotal	42-51
<b>Total Credits</b>	<b>48-57</b>

<sup>1</sup> Digital Literacy course - 3 credit hours or Demonstrated Competency - 0 credit hours

## Comparable Electrical Courses

Course	Title	Credits
EET 154 & EET 155	Electrical Construction I and Electrical Construction I Lab	4
ELT 110	Circuits I	5
IMT 110 & IMT 111	Industrial Maintenance Electrical Principles and Industrial Maintenance Electrical Principles Lab	5

Course approved by Program Coordinator