



**Program Curriculum Map for Heating, Ventilation, Air Conditioning and Refrigeration**

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**Goals**      **Course Prefix and Number**

<b>The student enrolled in this program shall be able to:</b>	HVAR 100	HVAR 101	HVAR 103	HVAR 152	HVAR 153	HVAR 201	HVAR 202	HVAR 203	HVAR 205	HVAR 206	HVAR 210	HVAR 211	HVAR 251	HVAR 252	HVAR 253	HVAR 256	HVAR 257	HVAR 258	HVAR 260	HVAR 262	HVAR 263	HVAR 280	HVAR 299				
1. Demonstrate safe and professional behaviors complimentary to the HVAR field. (Oral Communication & Personal Accountability )	I		I	E	E	E	E	E	E	E	E	R	R	R	R	R	R	R	R	R	R	R					
2. Describe the mechanical refrigeration cycle and its application to air conditioning and refrigeration equipment. (Critical Thinking)	I			E	E		E	E	E				R		R		R		R		R						
3. Explain the combustion process and its application to residential and commercial heating equipment. (Critical Thinking)					I			E							R		R				R	R					
4. Demonstrate competency in the use of HVAR service equipment commonly used in the field. (Critical Thinking)	I	I	I	E	E		E	E	E			E	R		R	R	R			R	R	R					
5. Collect data, disassemble, and assemble HVAR equipment to determine the operational status. (Critical Thinking & Writing)		I	I	E	E		E	E	E				R		R	R	R					R	R				
6. Demonstrate competency in the design and sizing of residential and commercial HVAR equipment. (Quantitative Literacy)						I				I	E		I	E	R		R	R									
7. Demonstrate knowledge of the regulations governing the use and safe handling of refrigerants. (Civic & Social Accountability)		I		E			E		E				R		R		R		R								
8. Demonstrate the ability to locate and utilize resources to foster continued learning and enrichment in the HVAR field. (Computer Literacy & Writing)	I	I	I	E	E	E	E	E	E	E	E	E	R	R	R	R	R	R	R	R	R	R					

