

EMPLOYABILITY PROFILE

Heating, Ventilation, A/C & Refrigeration HVACR

Industry-Based Skill Standards

Proficiency Definitions

NA = Not Applicable 1 = Developing 2 = Basic 3 = Proficient 4 = Mastery

	9th	10th	11th	12th		9th	10th	11th	12th
Safety					Professionalism				
Demonstrate and understand workplace policy and safety rules			Act and dress in a professional matter which includes the use of cell phones while in class						
Material Handling					Motor Controls				
Calculate the correct amount of material needed for projects given and choose the precise fastener to complete the job				Distinguish electric motor sizes and the common controls used to operate them					
Tool Identification and Usage					Control Devices				
Determine the appropriate tools needed to accomplish the assignment, and show proper use of that tool				Explain the use and function of Control Devices use in the industry					
Circuits					Systems				
Construct an electrical wiring circuit, summarize how it works and distinguish the proper devices needed to produce an accurate operating circuit				Summarize each HVAC/R component and explain their function in the system					
Pipe Bending					Refrigeration				
Demonstrate the correct use of the pipe bender and construct a number of job related bends				Demonstrate the proper equipment needed to recover and show a successful refrigeration recovery					
Pipe Cutting and Threading					Recharging				
Demonstrate and apply the proper tools use types of piping	d to cut, b	end, and	thread di	fferent	Demonstrate the proper equipment needed and di refrigeration leak detention and recharging proced		uccessful		
Pipe Joining					Clean Energy Storage				
Apply knowledge and explain the process of joining pipe together using either methods			Demonstrates understanding of the different types of energy storage technologies, such as batteries, flywheels, pumped hydro, compressed air, thermal storage, and hydrogen.						
Wire a Service Panel					Scientific Principles				
Apply their knowledge and skills to successfully wire a neat and accurate service panel			Apply knowledge to scientific principles and concepts, data collection and trend analysis						
CAD									
		1							



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WORK-BASED LEARNING			POSTSECONDARY CREDIT				
Type of WBL Experience	Year	Hours	College Course	Possible Cr.	Atta	Attained	
					Υ	N	
					Υ	N	
					Υ	N	
					Υ	N	
			Technical Assessment	Pa	Passed		
				Y		N	
				Y		N	
				Y		N	
			CERTIFICATIONS, ENDORSEMENTS, LIC	CENSES			
			Title	Date Obtained	Date Obtained		
TOTAL							

AWARDS, SPECIAL RECOGNITION, SCHOLARSHIPS	DIPLOMA	Date Obtained		
	Diploma Earned: Insert diploma type here			
	Technical Endorsement on Diploma?	Υ	N	