SKILLEDTRADES^{BC}

Refrigeration and Air Conditioning Mechanic Harmonized Level 1

STANDARDIZED LEVEL EXAM (SLE) BREAKDOWN

The following table shows the number of questions per General Area of Competency (GAC) and Competency on the *Refrigeration and Air Conditioning Mechanic Harmonized Level 1 SLE*.

Level 1 GAC/Competency			
А.	PER	FORM SAFETY RELATED FUNCTIONS	7
	A1.	Maintains Safe Work Environment	1
	A2.	Use Personal Protective Equipment (PPE) and Safety Equipment	3
	A3.	Perform Lock-Out and Tag-Out Procedures	2
	A4.	Practice Fire Prevention	1
B.	USE	TOOLS AND EQUIPMENT	8
	B1.	Use Hand Tools and Equipment	1
	B2.	Use Portable and Stationary Power Tools	1
	B3.	Use Cutting, Brazing and Soldering Equipment	1
	B4.	Use Charging, Evacuation and Recovery Tools	1
	B5.	Use Diagnostic and Measuring Tools and Equipment	1
	B6.	Use Access Equipment	1
	B7.	Use Rigging, Hoisting, Lifting and Positioning Equipment	1
	B8.	Use Digital Technology	1
C.	PER	FORM ROUTINE TRADE ACTIVITIES	27
	C1.	Apply Mathematics and Science	7
	C2.	Interpret Drawings and Specifications	2
	C3.	Use Codes, Regulations and Standards	3
	C4.	Use Manufacturer and Supplier Documentation	1

Number of questions on each exam: 100

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SKILLEDTRADES^{BC}

Level 1 GAC/Competency	#
C5. Organize Work and Maintain Records	1
C6. Select Refrigerants, Compressed Gases and Oils	2
C7. Apply Sealants and Adhesives	1
C8. Select HVAC/R Components and Accessories	7
C9. Select Fasteners, Brackets and Hangers	1
C10. Install Valves	2
D. USE COMMUNICATION TECHNIQUES	1
D1. Use Communication Techniques	1
E. APPLY ELECTRICAL CONCEPTS	28
E1. Use the Principles of Electricity and Electronics	5
E2. Use Electrical Wiring Diagrams and Schematics	7
E3. Apply Motor and Motor Control Theory	7
E4. Select Control Systems	7
E5. Apply Wiring Practices	2
F. APPLY REFRIGERATION AND AIR CONDITIONING THEORY	6
F1. Analyze Heat Pumps and Air Conditioning Systems	3
F2. Analyze Refrigeration Systems	3
G. PLAN REFRIGERATION AND AIR CONDITIONING INSTALLATIONS	4
G1. Perform Work Site Preparation	1
G2. Plan HVAC/R System Installation	3
H. INSTALL REFRIGERATION AND AIR CONDITIONING SYSTEMS	15
H1. Install HVAC/R Piping and Tubing	5
H2. Install HVAC/R Systems	6
H3. Install Control Systems	4
L. SERVICE REFRIGERATION AND AIR CONDITIONING SYSTEMS	4
L1. Maintain HVAC/R Systems	4
Total	: 100

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