Refrigeration and Air Conditioning Mechanic Harmonized Level 2

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 2 SLE*.

Number of questions on each exam: 100

Level 2 GAC/Competency	#
B. **USE TOOLS AND EQUIPMENT**	**5**
B5. Use Diagnostic and Measuring Tools and Equipment	4
B8. Use Digital Technology	1
C. **PERFORM ROUTINE TRADE ACTIVITIES**	**12**
C2. Interpret Drawings and Specifications	1
C3. Use Codes, Regulations and Standards	2
C4. Use Manufacturer and Supplier Documentation	1
C5. Organize Work and Maintain Records	1
C6. Select Refrigerants, Compressed Gases and Oils	3
C8. Select HVAC/R Components and Accessories	3
C10. Install Valves	1
E. **APPLY ELECTRICAL CONCEPTS**	**12**
E1. Use the Principles of Electricity and Electronics	3
E2. Use Electrical Wiring Diagrams and Schematics	2
E3. Apply Motor and Motor Control Theory	3
E4. Select Control Systems	3

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Level 2 GAC/Competency	#
E5. Apply Wiring Practices	1
F. APPLY REFRIGERATION AND AIR CONDITIONING THEORY	**12**
F1. Analyze Heat Pumps and Air Conditioning Systems	5
F2. Analyze Refrigeration Systems	4
F3. Apply Food Storage Theory	3
G. PLAN REFRIGERATION AND AIR CONDITIONING INSTALLATIONS	**12**
G1. Perform Work Site Preparation	1
G2. Plan HVAC/R System Installation	11
H. INSTALL REFRIGERATION AND AIR CONDITIONING SYSTEMS	**24**
H2. Install HVAC/R Systems	19
H3. Install Control Systems	5
I. APPLY GAS UTILIZATION THEORY	**5**
I1. Apply Combustion Theory	1
I2. Apply Draft Theory	2
I4. Apply Knowledge of Mechanical Safety Devices	2
J. INSTALL GAS-FIRED SYSTEMS	**6**
J3. Install Gas Piping and Tubing Systems	3
J9. Install Gas-Fired Appliances and Ancillary Equipment	3
L. SERVICE REFRIGERATION AND AIR CONDITIONING SYSTEMS	**12**
L1. Maintain HVAC/R Systems	4
L2. Service HVAC/R Systems	4
L3. Maintain Control Systems	2
L4. Service Control Systems	2
Total:	**100**

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