

# Refrigeration and Air Conditioning Mechanic Harmonized Level 3

## 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 3 SLE*.

**Number of questions on each exam: 100**

Level 3 GAC/Competency	#
<b>B. USE TOOLS AND EQUIPMENT</b>	<b>4</b>
B8. Use Digital Technology	4
<b>C. PERFORM ROUTINE TRADE ACTIVITIES</b>	<b>8</b>
C3. Use Codes, Regulations and Standards	3
C5. Organize Work and Maintain Records	2
C8. Select HVAC/R Components and Accessories	3
<b>E. APPLY ELECTRICAL CONCEPTS</b>	<b>19</b>
E1. Use the Principles of Electricity and Electronics	4
E2. Use Electrical Wiring Diagrams and Schematics	4
E3. Apply Motor and Motor Control Theory	5
E4. Select Control Systems	6
<b>F. APPLY REFRIGERATION AND AIR CONDITIONING THEORY</b>	<b>10</b>
F1. Analyze Heat Pumps and Air Conditioning Systems	4
F2. Analyze Refrigeration Systems	2
F4. Analyze Hydronic Systems	4
<b>G. PLAN REFRIGERATION AND AIR CONDITIONING INSTALLATIONS</b>	<b>4</b>
G2. Plan HVAC/R System Installation	4

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*December 1, 2022*

<b>Level 3 GAC/Competency</b>	<b>#</b>
<b>H. INSTALL REFRIGERATION AND AIR CONDITIONING SYSTEMS</b>	<b>6</b>
H2. Install HVAC/R Systems	3
H3. Install Control Systems	3
<b>I. APPLY GAS UTILIZATION THEORY</b>	<b>2</b>
I3. Apply Alternate Fuel Theory	2
<b>J. INSTALL GAS-FIRED SYSTEMS</b>	<b>17</b>
J1. Identify Burners	4
J2. Identify Flame Safeguards	4
J4. Install Gas Regulators, Valves and Valve Train Components	2
J5. Install Gas Controls	3
J7. Install Gas Venting Systems	2
J9. Install Gas-Fired Appliances and Ancillary Equipment	2
<b>K. COMMISSION SYSTEMS</b>	<b>10</b>
K1. Commission HVAC/R Systems	6
K2. Commission Control Systems	4
<b>L. SERVICE REFRIGERATION AND AIR CONDITIONING SYSTEMS</b>	<b>10</b>
L2. Service HVAC/R Systems	3
L3. Maintain Control Systems	3
L4. Service Control Systems	4
<b>M. SERVICE GAS-FIRED APPLIANCES AND EQUIPMENT</b>	<b>10</b>
M1. Service Gas Distribution Systems	2
M2. Service Gas Burners and Ancillary Equipment	2
M3. Maintain Gas-Fired Appliances, Boilers and Ancillary Equipment	4
M5. Service and Repair Gas Control Systems	2
<b>Total:</b>	<b>100</b>