

Heavy Mechanical Trades (2024)

Common Core 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 *Heavy Mechanical Trades (2024) Common Core Level 1 SLE*.

Number of questions on each exam: 100

Level 1 GAC/Competency	#
A. PERFORM OCCUPATIONAL SKILLS	12
A1. Use safe work practices	1
A2. Implement hybrid and electric vehicle (EV) safety protocols	1
A3. Use hand tools, power tools, and shop equipment	1
A4. Use fasteners and fittings	1
A5. Lift and support loads	1
A6. Operate equipment	1
A7. Use documentation and reference materials	1
A8. Service bearings and seals	2
A9. Select and maintain lubricants	1
A10. Use cutting and welding equipment	1
A11. Describe diagnostic procedures	1
B. SERVICE, DIAGNOSE, AND REPAIR BRAKES	20
B1. Service and repair hydraulic brakes and parking brakes	6
B2. Service and repair hydraulic power brakes and ABS systems	5
B3. Service and repair air brakes	9
C. SERVICE, DIAGNOSE, AND REPAIR HYDRAULICS	16
C1. Service hydraulic components	16
D. SERVICE, DIAGNOSE, AND REPAIR ELECTRICAL AND ELECTRONIC SYSTEMS	20
D1. Describe electricity	4
D2. Use electrical testing instruments	4

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Level 1 GAC/Competency	#
D3. Service, diagnose, and repair battery systems	6
D4. Service starting and charging systems	4
D5. Service electrical circuits	2
E. SERVICE, DIAGNOSE, AND REPAIR FRAMES, STEERING, AND SUSPENSION	16
E1. Service, diagnose, and repair tires, wheels, and hubs	4
E2. Service steering systems	3
E3. Service, diagnose, and repair suspension systems	4
E4. Service undercarriage systems	3
E5. Service, diagnose, and repair frames	2
F. SERVICE, DIAGNOSE, AND REPAIR TRAILERS	8
F1. Service, diagnose, and repair landing gear and trailer accessories	2
F2. Service, diagnose, and repair coupling systems	2
F3. Service, diagnose, and repair trailer body components	2
F4. Service heating and refrigeration systems	2
G. SERVICE, DIAGNOSE, AND REPAIR HEATING, VENTILATION, AND AIR CONDITIONING	4
G1. Describe heating and air conditioning fundamentals	4
J. SERVICE, DIAGNOSE, AND REPAIR STRUCTURAL COMPONENTS AND ACCESSORIES	4
J1. Describe protective structures	1
J2. Service, diagnose, and repair cab structures	3
L. USE COMMUNICATION AND MENTORING TECHNIQUES	0
L1. Use communication techniques	0
Total:	100