

Marine Mechanical Technician 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 *Marine Mechanical Technician Level 1 SLE*.

Number of questions on each exam: 75

Level 1 GAC/Competency	#
A. OCCUPATION SKILLS	12
A1. Use tools and equipment	3
A2. Work safely	3
A3. Follow safe yard and marina practices	3
A4. Operate vessels	0
A5. Use documentation	0
A6. Use fasteners and fittings	0
A7. Describe and use composites	0
A8. Select and use lubricants and coolants	3
B. VESSEL SYSTEMS	15
B1. Describe Thru-hulls	3
B2. Describe cabin heating systems	0
B3. Describe A/C and refrigeration theory	0
B4. Describe safe propane installations	3
B5. Describe davits, hoists and windlasses	0
B6. Describe fire suppression equipment and lock outs	3
B7. Inspect and repair mechanical and electrical steering systems	3
B8. Describe and install fresh/waste water plumbing systems	0
B9. Describe water makers	0
B10. Service and install bilge pump systems	3
C. HYDRAULIC EQUIPMENT	5
C1. Describe hydraulic theory and system components	3
C2. Service and install hydraulic steering systems	2
C3. Diagnose and repair hydraulic equipment	0

Marine Mechanical Technician: Level 1 SLE Breakdown

January 1, 2023

Level 1 GAC/Competency	#
D. METAL WORKING	3
D1. Perform metal fabrication operations	0
D2. Use oxy-acetylene torch	3
E. ELECTRICAL	24
E1. Describe principles of electrical theory	3
E2. Read and use electrical schematics	0
E3. Use electrical measurement and diagnostic equipment	3
E4. Describe storage battery types and applications	0
E5. Select, install and test batteries	3
E6. Service and install AC chargers and inverters	3
E7. Diagnose alternators and charging faults	3
E8. Diagnose engine starters and solenoids	3
E9. Install DC electrical wiring and circuits for electrical equipment	3
E10. Diagnose wiring and electrical components	0
E11. Diagnose and install alarms, gauges and senders	0
E12. Service and install gensets	3
F. ENGINE SUPPORT SYSTEMS	9
F1. Service and install fuel tanks	3
F2. Inspect and install fuel lines	3
F3. Service fuel pumps and filters	3
F4. Describe fuels and fuel additives	0
G. ENGINES	4
G1. Describe reciprocating engine theory and operation	4
H. BOAT TRAILERS	3
H1. Describe and service boat trailers	3
Total:	75