

Diesel Engine Mechanic

CERTIFICATE OF QUALIFICATION EXAM BREAKDOWN

The following table shows the number of questions per General Area of Competency (GAC) and Competency on the *Diesel Engine Mechanic Certificate of Qualification Exam*.

Number of questions on each exam: 100

Certificate of Qualification GAC/Competency			
A.	OCC	UPATIONAL SKILLS	10
	A1.	Use Safe Work Practices	1
	A4.	Use Hand Tools, Power Tools, and Shop Equipment	0
	A5.	Use Fasteners and Fittings	1
	A6.	Lift and Support Loads	1
	A7.	Operate Equipment	1
	A8.	Use Shop Resources and Record Keeping Practices	1
	A9.	Service Winch Wire Rope	1
	A10.	Identify Lubricants	1
	A11.	Service Bearings and Seals	1
	A13.	Use Electronic Media	0
	A14.	Use Cutting and Welding Equipment	2
	A16.	Describe Diagnostic Procedures	0
В.	B. BRAKES		
	B1.	Service and Repair Hydraulic Brakes	3
	B2.	Service and Repair Hydraulic Power Brakes	3
	В3.	Service and Repair Air Brakes	5
C.	HYD	RAULICS	7
	C1.	Describe Hydraulic Systems	3
	C2.	Service Hydraulic Components	4
D.	ELEC	CTRICAL	21
	D1.	Describe Electricity	3
	D2.	Use Electrical Testing Instruments	2
	D3.	Service and Diagnose Batteries	3
	D4.	Service Charging Systems	2
	D5.	Diagnose and Repair Charging Systems	2
	D6.	Service Starting Systems	3

Diesel Engine Mechanic: Certificate of Qualification Exam Breakdown

January 1, 2023



Certi	ificate	of Qualification GAC/Competency	#
	D7.	Diagnose and Repair Starting Systems	2
	D8.	Service Electrical Circuits	2
	D9.	Diagnose and Repair Electrical Components and Systems	0
	D10.	Diagnose and Repair Electronic Components and Systems	1
	D11.	Diagnose and Repair Vehicle Management Systems	1
E.	FRAI	MES, STEERING AND SUSPENSION	8
	E1.	Service and Diagnose Tires, Wheels, and Hubs	2
	E2.	Service Steering Systems	3
	E4.	Service, Diagnose and Repair Suspension Systems	2
	E6.	Diagnose and Repair Frames	1
F.	TRA	ILER	3
	F1.	Service Landing Gear and Trailer Accessories	1
	F2.	Service and Repair Coupling Systems	1
	F3.	Service, Diagnose and Repair Trailer Body Components	1
	F4.	Service, Diagnose and Repair Heating and Refrigeration Systems	0
G.	HEA	TING, VENTILATION AND AIR CONDITIONING	4
	G1.	Describe Heating and Air Conditioning Fundamentals	2
	G2.	Diagnose and Repair Heating and Air Conditioning Systems	2
H.	ENG	INES AND SUPPORTING SYSTEMS	34
	H1.	Describe Engine Fundamentals	1
	Н3.	Diagnose and Repair Engine Support Systems	3
	H5.	Diagnose and Repair Diesel Supply Systems	1
	H7.	Describe Alternative Fuel Systems	1
	H8.	Diagnose Engines and Components	1
	H10.	Repair Engines and Components	11
	H11.	Describe Diesel Fuel Injection Fundamentals	1
	H12.	Diagnose and Repair Mechanical Fuel Injection Systems	2
	H13.	Diagnose and Repair Electronic Diesel Fuel Systems	9
	H14.	Diagnose and Repair Diesel Emissions Systems	3
	H15.	Diagnose and Repair Engine Brakes	1
J.	STRU	JCTURAL COMPONENTS AND ACCESSORIES	2
	J1.	Identify Protective Structures	1
	J2.	Service Cab Structures	1
		Total:	100

Diesel Engine Mechanic: Certificate of Qualification Exam Breakdown

January 1, 2023