Marine Service Technician

CERTIFICATE OF QUALIFICATION EXAM BREAKDOWN

The following table shows the number of questions per General Area of Competency (GAC) and Competency on the *Marine Service Technician Certificate of Qualification Exam*.

Number of questions on each exam: 120

Cert	ificate	e of Qualification GAC/Competency	#
А.	SAF	ETY	5
	A1.	Apply Safe Work Practices	4
	A2.	Respond to Workplace Emergencies	1
В.	YAR	D MANAGEMENT	4
	B1.	Apply Professional Boatyard Business Practices	1
	B2.	Describe Role of Surveyors and Insurance Adjusters	2
	B3.	Manage Projects	1
C.	YAR	D PRACTICES	4
	C1.	Apply Environmental Protection Practices	1
	C2.	Secure and Block Vessels	2
	C3.	Identify the Consequences of Vessel and Engine Submersion	1
D.	TEC	HNOLOGY AND DESIGN	9
	D1.	Define Trade Terminology and Concepts	1
	D3.	Describe Design Basics	1
	DA		
	D4.	Describe Principles of Powering	2
	D4. D5.	Describe Principles of Powering Describe Wood Vessel Construction	2 1
	-		
	D5.	Describe Wood Vessel Construction	1
E.	D5. D6. D7.	Describe Wood Vessel Construction Describe FRP Vessel Construction	1 2
E.	D5. D6. D7.	Describe Wood Vessel Construction Describe FRP Vessel Construction Describe Metal Vessel Construction	1 2 2
E.	D5. D6. D7. TRA	Describe Wood Vessel Construction Describe FRP Vessel Construction Describe Metal Vessel Construction DE MATHEMATICS	1 2 2 5
E. F.	D5. D6. D7. TRA E1. E2.	Describe Wood Vessel Construction Describe FRP Vessel Construction Describe Metal Vessel Construction DE MATHEMATICS Apply Trade Math	1 2 2 5 4

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January 1, 2023

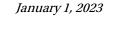
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SKILLEDTRADES^{BC}

Cert	ificate	e of Qualification GAC/Competency	#
	F2.	Use Portable Power Tools	3
	F3.	Use Stationary Power Tools	3
	F4.	Use Compressed Air Delivery Systems	2
	F5.	Use Spray Equipment	2
	F6.	Maintain Workplace Electrical Equipment	2
G.	MAT	TERIALS	16
	G1.	Select Wood Repair Materials	2
	G2.	Select Composite Materials	3
	G3.	Use Thermoplastics	2
	G4.	Select Marine Metals	2
	G5.	Select Fasteners	2
	G6.	Use Adhesive and Bedding Compounds	3
	G7.	Use Abrasive Materials	2
H.	MARINE METALS		
	H1.	Drill and Cut Metals	3
	H4.	Control Corrosion in Metals	3
I.	WOO	DDWORK	6
	I1.	Assess Rot and Deterioration Damage	1
	I2.	Perform Structural Repairs	1
	I3.	Perform Fairing and Cosmetic Operation	1
	I6.	Perform Cold Molding	1
	I7.	Perform Wood Laminating	1
	I9.	Sheath Wood Structure with Composite Materials	1
J.	COM	IPOSITE	11
	J1.	Fabricate FRP Tooling	1
	J2.	Repair FRP Structures	3
	J3.	Repair Keel Impact Damage	2
	J4.	Repair FRP Rudders and Stabilizers	1
	J6.	Perform Vacuum Bag Laminating	1
	J8.	Maintain Gel Coat Surfaces	1
	J9.	Repair Gel Coat Damage	2
K.	MEC	CHANICAL SYSTEMS	11
	K1.	Identify Engine and Drivetrain Components	1

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SKILLEDTRADES^{BC}

ertifica	e of Qualification GAC/Competency	#	
K3.	Remove and Install Engines	1	
K4.	Perform Engine Pre-Start Inspection	1	
K5.	Service Marine Engine Components	1	
K6.	Service Engine Controls, Alarms and Gauges	1	
K7.	Service Steering Gear	1	
K8.	Service Engine Mounts, Shafting and Alignment	1	
K9.	Service Propellers	1	
K10.	Install and Service Hydraulic Systems	1	
K11.	Service Engine Starting and Charging Systems	1	
L. ELH	CTRICAL		
L1.	Calculate Current, Resistance and Voltage	2	
L2.	Perform Basic Wiring and Testing Procedures	2	
L3.	Install and Service DC Power Supply and Distribution Systems	3	
L4.	Install and Service AC Power Supply and Distribution Systems	1	
A. ELI	ELECTRONICS		
M1.	Install Basic Electronics and Networks	2	
N. INS	TALLATIONS]	
N1.	Install Hardware and Fittings	2	
N2.	Install Thru-Hulls and Underwater Equipment	3	
N3.	Install and Service Fresh Water Systems	2	
N4.	Install and Service Waste Water Systems	2	
N5.	Describe Propane Distribution Systems	1	
N6.	Install and Service Heating Systems	1	
). RIC	RIGGING		
01	Install and Service Standing Rigging	1	
02	Install and Service Running Rigging	1	
P. FIN	ISHING AND PAINTING		
P1.	Apply Utility Coatings by Brush and Roller	1	
P2.	Apply Anti-Fouling Paints	2	
P3.	Mark and Mask Waterlines and Stripes	1	
P4.	Prep and Prime for Multi-Component Topcoats	1	
1 7		1	
P7.	Brush-Apply Gloss Paints and Varinsnes	_	

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