

Marine Electrician

ENDORSEMENT EXAM BREAKDOWN

The following table shows the number of questions per General Area of Competency (GAC) and Competency on the *Marine Electrician Endorsement Exam*.

Number of questions on each exam: 76

Endorsement Exam GAC/Competency				
A.	MA	RINE INDUSTRY KNOWLEDGE	10	
	A1.	Use terminology related to ships	4	
	A2.	Describe hazards in shipboard and shipyard work environments	4	
	A3.	Apply regulations and standards	2	
В.	MA	RINE WIRING METHODS	15	
	B1.	Install marine electrical cables and transits	4	
	B2.	Terminate cable shielding specific to marine cables	2	
	В3.	Install packing of transits and deck tubes	2	
	B4.	Install wireways	3	
	B5.	Install corrosion protection in a marine environment	4	
C.	POV	WER GENERATION	8	
	C1.	Install and maintain prime mover controls	3	
	C2.	Install and maintain power generator protective relays	3	
	C3.	Describe main and auxiliary power generation and related controls	2	
D.	POV	VER DISTRIBUTION	19	
	D1.	Describe shipboard power distribution	3	
	D2.	Install and maintain switchboards, motor control centres, power distribution centres and panelboards	3	
	D3.	Describe shore power systems	3	
	D4.	Install and maintain power sources	4	
	D5.	Install and maintain temporary services	1	
	D6.	Install, maintain and troubleshoot lighting systems	5	
E.	E. SHIPBOARD SYSTEMS AND CONTROLS			
	E1.	Describe marine control systems	2	

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	E2.	Describe alarms and monitoring systems	3
	Е3.	Describe marine communication systems	2
	E4.	Describe cathodic protection	2
	E5.	Describe marine navigation systems	3
	E6.	Install and maintain batteries	3
F.	TES	TING AND TROUBLESHOOTING	9
	F1.	Describe routine testing and certification	2
	F2.	Describe and perform insulation testing	4
	F3.	Describe and interpret schematics and wiring diagrams	3
		Total:	76

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