

Examination topics	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Determine Maneuvering Characteristics of Major Vessel Types	X	X							3												X		X	
Wake Reduction	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ice Operations/Ice Navigation	X	X	X				X	X	X	X	3	X	3						X	X		X	X	X
Towing Vessel Operations							X	X	X															
Stability, Construction, and Damage Control:																								
Principles of Vessel Construction	X	X	X	X			X	3	X	X	3	X	3	X	X	X						X	X	X
Trim and Stability	X	X	X	X			X	X	X	X	3	X	3	X	X	X		X	X	X		X	X	X
Damage Trim and Stability	X	X																				X	X	
Stability, Trim, and Stress Calculation	X	X	X																			X	X	
Vessel Structural Members	X	X	X	7						X	X	3	7									X	X	X
IMO Ship Stability Recommendations	X	X																				X	X	
Damage Control	X	X	X	7			X	X	X	X	X	X	7	X	X	X	X	7	X	X		X	X	X
Change in Draft Due to Density	X																							
Vessel Power Plants:																								
Marine Power Plant Operating Principles	X	X		7			X	X	X	X		X	7	X	X	X			X			X	X	
Vessel's Auxiliary Machinery	X	X							X	X	X			X	X	X						X	X	
Marine Engineering Terms	X	X	X	7			X	X	X	X	X	X	7	X	X	X	X	7	X	X		X	X	X
Small Engine Operations and Maintenance				X	X	X						X					X							
Cargo Handling and Stowage:																								
Cargo Stowage and Security, including Cargo Gear	X	X	X	7						X	X	X	7	X	X	X	X	7	X	X		X	X	X
Loading and Discharging Operations	X	X	X						X	X	X	X		X	X	X	X		X	X		X	X	X
International Regulations for Cargoes, especially	X	X																				X	X	X