

	1			2			3			4			5			6		
	S	M	G	S	M	G	S	M	G	S	M	G	S	M	G	S	M	G
Deck machinery	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ventilation systems	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Thermodynamics				X	X	X				X	X	X						
Heat exchangers				X	X	X				X	X	X				X	X	X
Watch duties				X	X	X				X	X	X						
International rules and regulations				X	X	X				X	X	X						
Refrigeration and air conditioning:																		
Theory																		
Air conditioning systems	X	X	X	X	X	X				X	X	X				X	X	X
Refrigeration systems	X	X	X	X	X	X				X	X	X				X	X	X
Control systems	X	X	X	X	X	X				X	X	X				X	X	X
Instruments-gauges				X	X													
Safety	X	X	X	X	X	X				X	X	X				X	X	X
Casualty control	X	X	X	X	X	X				X	X	X				X	X	X
Electricity, electronics and control systems:																		
Theory				X	X	X										X	X	X
General maintenance				X	X	X										X	X	X
Generators				X	X	X												
Motors				X	X	X												
Motor controllers	X	X	X	X	X	X				X	X	X				X	X	X
Propulsion systems	X	X	X	X	X	X				X	X	X				X	X	X
Distribution systems	X	X	X	X	X	X				X	X	X				X	X	X
Electronic systems	X	X	X	X	X	X				X	X	X				X	X	X
Batteries				X	X	X										X	X	X
Communications				X	X	X										X	X	X
Safety	X	X	X	X	X	X				X	X	X				X	X	X
Casualty control	X	X	X	X	X	X				X	X	X				X	X	X
Troubleshooting	X	X	X	X	X	X				X	X	X				X	X	X