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(20) Apprentice mate (steersman) of towing vessels, limited.
(21) Offshore Installation Manager.
(22) Barge Supervisor.
(23) Ballast Control Operator.
(24) Operator of uninspected passenger vessels.
(25) Master of uninspected fishing industry vessels.
(26) Mate of uninspected fishing industry vessels.
(27) Master (OSV).
(28) Chief mate (OSV).
(29) Mate (OSV).
(30) First assistant engineer (limited or unlimited propulsion power).
(31) Third assistant engineer (limited or unlimited propulsion power).
(32) Chief engineer (limited) steam/motor vessels.
(33) Assistant engineer (limited) steam/motor vessels.
(34) Designated duty engineer steam/motor vessels.
(35) Chief engineer (uninspected fishing industry vessels).
(36) Assistant engineer (uninspected fishing industry vessels).
(37) Chief engineer (MODU).
(38) Assistant engineer (MODU).
(39) Chief engineer (OSV).
(40) Assistant engineer (OSV).

(b) In paragraphs (a)(1) through (4), and (a)(6), (7), (15), and (16) of this section, examinations will vary depending on route desired.

(c) The following officer endorsements do not require examinations:

(1) Master of oceans or near-coastal vessels of unlimited tonnage when upgrading from MMC officer endorsements, or a license as chief mate of oceans or near-coastal vessels of unlimited tonnage, provided the applicant has already been examined at the management level.

(2) Master of oceans or near-coastal vessels of unlimited tonnage when adding an endorsement as offshore installation manager (OIM).

(3) Master of oceans or near-coastal self-propelled vessels of less than 200 GRT, when upgrading from mate of near-coastal self-propelled vessels of less than 200 GRT. Master of oceans self-propelled vessels of less than 200 GRT would, however, require an examination in celestial navigation.

(4) Second mate of oceans or near-coastal vessels when upgrading from third mate of oceans or near-coastal vessels, provided the applicant has already been examined at the operational level.

(5) Master of Great Lakes and inland vessels, or river vessels of less than 200 GRT when upgrading from mate of less than 200 GRT on the same route.

(6) Chief engineer unlimited, provided the applicant has already been examined at the management level.

(7) Chief engineer limited to service on steam, motor, or gas turbine-propelled vessels of less than 10,000 HP/7,500 kW on near-coastal routes, provided the applicant has already been examined at the management level.

(8) Chief engineer limited to service on steam, motor, and/or gas turbine-propelled vessels of less than 4,000 HP/3,000 kW on near-coastal routes, provided the applicant has already been examined at the management level.

(9) Second assistant engineer when upgrading from third assistant engineer, provided the applicant has already been examined at the operational level.

[USCG–2004–17914, 78 FR 77909, Dec. 24, 2013, as amended by USCG–2014–0688, 79 FR 58277, Sept. 29, 2014]

§ 11.910 Subjects for deck officer endorsements.

Table 1 to § 11.910 gives the codes used in Table 2 to § 11.910 for all deck officers. Table 2 to § 11.910 indicates the examination subjects for each endorsement, by code number. Figures in the body of Table 2 to § 11.910, in place of the letter ''x'', refer to notes.

TABLE 1 TO § 11.910—CODES FOR DECK OFFICER ENDORSEMENTS

Deck Officer Endorsements
1. Master/chief mate, oceans/near-coastal, unlimited tonnage.
2. Master, oceans/near-coastal, less than 500 GRT and less than 1,600 GRT.
3. Second mate/third mate, oceans/near-coastal, unlimited tonnage, and mate less than 500 GRT and less than 1600 GRT, oceans/near-coastal.

TABLE 1 TO § 11.910—CODES FOR DECK OFFICER ENDORSEMENTS—Continued

4. Master, oceans/near-coastal, and mate, near-coastal, less than 200 GRT (includes master, near-coastal, less than 100 GRT).
5. Operator, uninspected passenger vessels, near-coastal.
6. Operator, uninspected passenger vessels, Great Lakes/inland.
7. Apprentice mate, towing vessels, ocean (domestic trade) and near-coastal routes.
8. Apprentice mate (steersman), towing vessels, Great Lakes, and inland routes.
9. Steersman, towing vessels, Western Rivers.
10. Master, Great Lakes/inland, or master, inland, unlimited tonnage.
11. Mate, Great Lakes/inland, unlimited tonnage.
12. Master, Great Lakes/inland, less than 500 GRT and less than 1,600 GRT.
13. Mate, Great Lakes/inland, less than 500 GRT and less than 1,600 GRT.
14. Master or mate, Great Lakes/inland, less than 200 GRT (includes master, Great Lakes/inland, less than 100 GRT).
15. Master, rivers, unlimited tonnage.
16. Master, rivers, less than 500 GRT and less than 1,600 GRT.
17. Mate, rivers, less than 500 GRT and less than 1,600 GRT.
18. Master or mate, rivers, less than 200 GRT (includes master, rivers, less than 100 GRT).
19. Master, uninspected fishing industry vessels, oceans/near-coastal.
20. Mate, uninspected fishing industry vessels, oceans/near-coastal.
21. First-class pilot.
22. Master (OSV).
23. Chief mate (OSV).
24. Mate (OSV).

Table 2 to § 11.910 --_Subjects For Deck Officer Endorsements

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
Navigation and position determination:																								
Ocean Track Plotting:																								
Middle Latitude Sailing	1	1	1																1	1		1	1	1
Mercator Sailing	X	X	X	7															X	X		X	X	X
Great Circle Sailing	1	1	1	7															1	1		1	1	1
Parallel Sailing	1	1	1																1	1		1	1	1
Estimated Time of Arrival	X	X	X				1												X	1	1	X	X	1
Piloting:																								
Distance Off	X	X	X	X	X	X	X	X		X	X	X	X	X					X	X	X	X	X	X
Bearing Problems	X	X	X	X	X	X	X	X		X	X	X	X	X					X	X	X	X	X	X
Fix or Running Fix	X	X	X	X	X	X	X	X		X	X	X	X	X					X	X	X	X	X	X
Chart Navigation	X	X	X	X	X	X	X	X	2	X	X	X	X	X	2	2	2	2	X	X	X	X	X	X
Dead Reckoning	X	X	X	X	X	X	X	X		X	X	X	X	X					X	X	X	X	X	X
Celestial Observations:																								
Latitude by Polaris	1	1	1	1															1	1		1	1	1
Latitude by Meridian Transit (Any Body)	1	1																	1			1	1	
Latitude by Meridian Transit (Sun Only)			1	1			1													1				1
Fix or Running Fix (Any Body)	1	1	1																1			1	1	1
Fix or Running Fix (Sun Only)				1			1													1				
Star Identification	1	1	1				1												1			1	1	1
Star Selection	1	1	1				1												1			1	1	1
Times of Celestial Phenomena:																								
Time of Meridian Transit (Any Body)	1	1																	1			1	1	
Time of Meridian Transit (Sun Only)			1	1			1													1				1
Zone Time of Sun Rise/Set/Twilight	1	1	1	1			1												1	1		1	1	1
Speed by RPM	X	X	X							3									X	X		X	X	X
Fuel Conservation	X	X		1			1			3									X			X	X	

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
Electronic Navigation	X	X	X	X	X	X	X	X		X	X	X	X	X					X	X	X	X	X	X
Instruments & Accessories	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aids to Navigation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Charts, Navigation Publication, & Notices to Mariners	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nautical Astronomy & Navigation Definitions	1	1	1	1			1												1	1		1	1	1
Chart Sketch																					4			
Seamanship:																								
Marlinspike Seamanship			X	X	X	X	X	X	X		X		X	X	X	X	X	X	X	X	X			X
Purchases, Blocks, & Tackle			X	X			X	X	X		X		X	X	X	X	X	X	X	X	X			X
Watchkeeping:																								
COLREGS	X	X	X	X	X	5	X	5		5	5	5	5	5					X	X	5	X	X	X
Inland Navigational Rules	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Basic Principles, Watchkeeping	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Navigation Safety Regulations (33 CFR 164)	X		X				X	X	X	X	X				X				6	6	6	6	6	6
Compass - Magnetic & Gyro:																								
Principles, Operation, and Maintenance of Gyro Compass	X	X	X	7			1			X	X	X	X	7	X				X	X		X	X	X
Principles of Magnetic Compass	X	X	X	X	X	3	X	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Gyro Compass Error/Correction	X	X	X	7			1	X		X	X	X	X	7	X				X	X	X	X	X	X
Magnetic Compass Error/Correction	X	X	X	X	X	3	X	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Determination of Compass Error:																								
Azimuth (Any Body)	X	X	X	7			X															X	X	X
Azimuth (Sun Only)										3									1	1				
Amplitude (Any Body)	X	X	X	7			X															X	X	X
Amplitude (Sun Only)										3									1	1				
Terrestrial Observation	X	X	X	X	X	X	X	X		X	X	X	X	X					X	X	X	X	X	X

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
Meteorology and Oceanography:																								
Characteristics of Weather Systems	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Ocean Current Systems	X	X	X	X			X												X	X		X	X	
Weather Charts and Reports	X	X	X	X	X	X	X	X		X	X	X	X	X					X	X		X	X	X
Tides and Tidal Currents:																								
Terms and Definitions	X	X	X	X	X	X	X	X		X	X	X	X	X					X	X	X	X	X	X
Publications	X	X	X	X	X	X	X	X		X	X	X	X	X					X	X	X	X	X	X
Calculations	X	X	X	X	X	X	X	X		X	X	X	X	X					X	X	X	X	X	X
Vessel Maneuvering and Handling:																								
Approaching Pilot Vessel or Station	X	X																			X			
Vessel Handling in Rivers & Estuaries	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	
Maneuvering in Shallow Water	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	
Interaction with Bank/Passing Ship	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	
Berthing and Unberthing	X	X		X	X	X	X			X	X	X		X	X	X		X	X		X	X	X	
Anchoring and Mooring	X	X	X	X	X	X	X			X	X	X	X	X					X	X	X	X	X	X
Dragging of, Clearing Fouled Anchors	X	X	X	X						X	X	X	X	X					X	X		X	X	X
Heavy Weather Operations	X	X	X	X	X	X	X	X		3	3	3	3	3					X	X		X	X	X
Maneuvering for Launching of Lifeboats and Liferafts in Heavy Weather	X	X		X			X	X		3		3		3					X			X	X	
Receiving Survivors From Lifeboats/Liferafts	X	X		X			X	X														X	X	
General: Turn Circle, Pivot Point, Advance and Transfer			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X

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	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	
Vessel's Auxiliary Machinery	X	X								X		X			X	X						X	X	
Marine Engineering Terms	X	X	X	7			X	X	X	X	X	X	X	7	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	X	7	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
International Regulations for Cargoes, especially	X	X																				X	X	

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
International Maritime Dangerous Goods Code																								
Dangerous/Hazardous Cargo Regulations	X	X	X				X	X	X	X	X	X	X		X	X	X					X	X	X
Tank Vessel and Fuel Oil Operations	X	X	X	7						X	X	X	X	7	X	X	X	7	X	X		X	X	X
Cargo Piping and Pumping Systems																						X	X	X
Cargo Oil Terms and Definitions																						X	X	X
Barge Regulations (Operations)							X	X	X															
Fire Prevention and Firefighting Appliances:																								
Organization of Fire Drills	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Classes and Chemistry of Fire	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Firefighting Systems	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Firefighting Equipment & Regulations	X	X	X	7			X	X	X	X	X	X	X	7	X	X	X	7	X	X	X	X	X	X
Firefighting Equipment & Regulations for T-Boats				9										9				9						
Basic Firefighting and Prevention	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Emergency Procedures:																								
Ship Beaching Precautions	X	X								X		X							X			X	X	
Actions Prior to/after Grounding, Including Refloating	X	X								X		X			X	X			X			X	X	
Collision	X	X		X	X	X	X	X	X	X		X		X	X	X		X	X			X	X	
Temporary Repairs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Passenger/Crew Safety in Emergencies	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Fire or Explosion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Abandon Ship Procedures	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Emergency Steering	X	X	X	7			X	X	X	X	X	X	X	7	X	X	X	7	X	X		X	X	X

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
Rescuing Survivors from Ship/Aircraft in Distress	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Man Overboard Procedures	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Emergency Towing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Medical Care:																								
Knowledge and use of:																								
International Medical Guide for Ships	X	X																				X	X	
Ship's Medical Chest & Medical Aid at Sea	X	X																				X	X	
Medical Section, International Code of Signals	X	X	X																			X	X	X
Maritime Law:																								
International Maritime Law:																								
International Convention on Load Lines	X	X																				X	X	
SOLAS	X	X																				X	X	
MARPOL 73/78	X	X	X	X															X	X		X	X	X
International Health Regulations	X	X																				X	X	
Other International Instruments for Ship/Passenger/Crew/ Cargo Safety	X	X		X																		X	X	
National Maritime Law:																								
Load Lines	X	X	X	X			X	X		3	3	3	3	X								X	X	X
Certification & Documentation of Vessels	X	X		X	X	X	X	X	X	X		X		X	X	X		X	X			X	X	
Rules & Regulations for Inspected Vessels	X	X	X	7						X	X	X	X	7	X	X	X	7				X	X	X
Rules & Regulations for Inspected T-Boats				9										9				9						

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
Vessels																								
Rules & Regulations for Inspected Vessels	X	X	X	7						X	X	X	X	7	X	X	X	7				X	X	X
Rules & Regulations for Inspected T-Boats				9										9				9						
Rules and Regulations for Uninspected Vessels					X	X	X	X	X										X	X				
Pollution Prevention Regulations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Pilotage	X	X					X	X	X												X	X	X	
Credentialing of Seamen	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Shipment and Discharge, Manning	X	X		X			X			X		X			X	X						X	X	
Title 46, U.S. Code	X	X								X		X			X	X						X	X	
Captain of the Port Regulations, Vessel Traffic Service Procedures for the Route Desired																					X			
Shipboard Management and Training:																								
Personnel Management	X	X								X		X			X	X			X			X	X	
Shipboard Organization	X	X								X		X			X	X			X			X	X	
Required Crew Training	X	X								X		X			X	X			X			X	X	
Ship Sanitation	X	X		X	X	X	X	X	X	X		X		X	X	X		X	X			X	X	
Vessel Alteration/Repair Hot Work	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Safety	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
Ship's Business:																								
Charters	X	X					X	X	X	X		X			X	X						X	X	
Liens and Salvage	X	X					X	X	X	X		X			X	X						X	X	
Insurance	X	X					X	X	X	X		X			X	X						X	X	
Entry and Clearance	X	X					X	X	X	X		X			X	X						X	X	
ISM and Safety Management Systems	X	X	X				X	X	X													X	X	X
Certificates and	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X

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
Signals: Storm/Wreck/Distress/ Special	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
International Code of Signals	X	X	X																			X	X	X
IMO Standard Maritime Communication Phrases	X	X	X																			X	X	X
Lifesaving:																								
Survival at Sea	X	X	X	X	X		X												X	X		X	X	X
Lifesaving Appliance Regulations	X	X	X	7						X	X	X	X	7	X	X	X	7				X	X	X
Lifesaving Appliance Regulations for T-Boats				9										9				9						
Lifesaving Appliance Operation	X	X	X	7	X	X	X	X	X	X	X	X	X	7	X	X	X	7	X	X		X	X	X
Lifesaving Appliance Operations for T-Boats				9										9				9						
Search and Rescue:																								
Search and Rescue Procedures	X	X	X							X		X							X			X	X	X
Automated Mutual-Assistance Vessel Rescue System and International Aeronautical and Maritime Search And Rescue Manual	X	X	X																			X	X	X
Sail/Auxiliary Sail Vessels Addendum (8)	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X						

1 For ocean routes only.

2 River chart navigation only.

3 Only on Great Lakes specific modules taken for "Great Lakes and Inland" routes.

4 Including recommended courses, distances, prominent aids to navigation, depths of waters in channels and over hazardous shoals, and other important features of the route,

such as character of the bottom. The Coast Guard may accept chart sketching of only a portion or portions of the route for long or extended routes.

5 COLREGS required if endorsement is not limited to non-COLREGS waters.

6 For officer endorsements of 1,600 GRT or more.

7 Only for officer endorsements of 100 GRT or more.

8 Sail vessel safety precautions, rules of the road, operations, heavy weather procedures, navigation, maneuvering, and sailing terminology. Applicants for sail/auxiliary sail endorsements to master, mate or operator of uninspected passenger vessels are also tested in the subjects contained in this addendum.

9 For officer endorsements of less than 100 GRT.

[USCG–2004–17914, 78 FR 77909, Dec. 24, 2013, as amended by USCG–2014–0688, 79 FR 58277, Sept. 29, 2014]