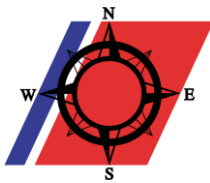


Guide for Mariners — Merchant Marine Examinations (Deck & Engineering Guidance)

July 2011

**This publication provides guidance for mariners pertaining to
Coast Guard Examinations.**




From: A. S. LLOYD, CAPT

CG-NMC

To: DISTRIBUTION

Subj: GUIDE FOR MARINERS ON MERCHANT MARINE EXAMINATIONS. (MCP-MA-NMC2 -06)

Ref: Code of Federal Regulations Title 46, Chapter 1, Subchapter B

PURPOSE. This manual provides guidance for mariners who plan to test for an officer and/or rating endorsement.

ACTION. Commanding officers of units with marine safety responsibilities should bring this manual to the attention of the maritime industry with interests in marine personnel issues and to institutions that offer U.S. Coast Guard approved training. This manual will be distributed by electronic means only. It is available on the World Wide Web at:

http://www.uscg.mil/nmc/deck_exams.asp

DIRECTIVES AFFECTED: None

DISCUSSION. The Examinations contained in this manual reference the modules for each officer and rating endorsement.

The Coast Guard utilizes an electronic distribution system of examination modules to improve examination quality and productivity, and this manual complements the use of this system.

PROCEDURE.

The examinations contained in this manual are effective July, 2011.

PROCUREMENT INFORMATION. Distribution will be provided by electronic means for local reproduction only from the Internet at: http://www.uscg.mil/nmc/deck_exams.asp

COMMENTS. Comments can be made to Commanding Officer, National Maritime Center (NMC-2), 100 Forbes Drive, Martinsburg, WV 25404 or by calling (304) 433-3400.

Dist: Commandant (CG-522)

Areas (Ap, Pp)

All District Commanders (P)

All Sector Commanders

All RECs

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1. INTRODUCTION

In its guidance on the Evaluation of Competence, the Seafarers Training, Certification, and Watchkeeping Code (STCW) states:

“Recognizing the importance of establishing detailed mandatory standards of competence and other mandatory provisions necessary to ensure that all seafarers shall be properly educated and trained, adequately experienced, skilled and competent to perform their duties in a manner which provides for the safety of life and property at sea and the protection of the marine environment.”

For reasons such as these the Coast Guard continues to view its written examinations in addition to the training and practical demonstrations as an essential part of the process in developing the mariner's competency.

This Publication provides guidance for Mariners on Coast Guard Examinations. If you have any questions concerning the deck and engine department examinations or suggestions for improvements to the exam structure or other sections of this manual, please contact:

Mariner Training and Assessment Division (NMC-2)
U.S. Coast Guard National Maritime Center
100 Forbes Drive
Martinsburg, WV 25404

Title 46 Code of Federal Regulations Part 10 instructs the Officer in Charge Marine Inspection (OCMI) to conduct a Professional Examination of applicants for original issues, raises in grade, increases in scope, and renewals of endorsements. The examination follows a determination by the OCMI that the applicant's training, appropriate practical demonstrations, and experience is satisfactory and they are eligible in all other respects. The purpose of this Publication is to help identify the appropriate professional examination for the mariner as well as provide information on the examination process.

If you need further information or assistance with respect to the exam process, please do not hesitate to contact the USCG National Maritime Center at:

POC: Mariner Information Call Center

E-mail: IASKNMC@uscg.mil

Phone: 1-888-IAskNMC

2. GENERAL INFORMATION

2.1 Instructions

2.1.1 Exam Structure Sheets (ESS)

The contents of each exam incorporating the use of test module(s) and the instructions for its administration are detailed in the individual Exam Structure Sheets (ESS). There is an ESS for each officer endorsement and rating endorsement action for which an examination is required. Each examination is made up of one or more modules (tests). All the required modules for a particular officer endorsement and rating endorsement action are shown. Depending on the officer endorsement and rating endorsement for which the applicant is to be examined, modules unique to a particular exam may be combined with generic modules, which are common to several exams. Each module is graded independently unless otherwise indicated.

2.1.2 Exam Room Materials

Exam illustrations will be provided at the back of each exam module booklet. The list of authorized reference materials allowed in the exam room for Deck exams can be found on pages 11-13. 46 CFR Parts 1-199 and 33 CFR Parts 1-199 are the ONLY references allowed in the exam room for Engine exams. Examiners at the REC(s) should review the libraries to ensure that these publications, and ONLY these publications, are available to the applicant. Regional Exam Centers (RECs) are responsible for keeping reference materials current.

Only non-programmable calculators are permitted. Applicants may use calculators, but are not permitted to use preprinted forms during the examinations. All calculators must meet the following standards:

- a) It must not use pre-programmed strips or chips or any other pre-programmed device that may be inserted into the calculator.
- b) It may not be a permanently programmed specialty computer, such as a navigation computer. Computers capable of generating trigonometric functions, logs and anti-logs, squares, cubes, and roots thereof, are acceptable provided they meet the other requirements.
- c) Any manually programmable calculator without simple erasure capability is not permitted.
- d) Any printed calculator tape must be turned in at the end of the exam with any scratch paper.

2.1.3 Exam Room Procedure

When an application for examination is submitted, the applicant should be prepared to be examined on all the material applicable to the officer endorsement or rating endorsement for which the application has been made. Examinations may be administered only when all regulatory prerequisites are completed. To allow Exam Room Supervisors to manage their time and resources, it is recommended that applicants be required to make appointments for all exams. Subject to the Exam Room Supervisor's discretion, applicants may start the exam on any day the office is open. A limit of 3½ hours will be provided to each applicant to complete a test module except as necessary to accommodate the working hours of the examination room. The examination fee set out in 46 CFR Table 10.219(a) in Sec. 10.219 must be paid before the applicant may take the first examination section.

2.1.4 Exam Administration

When administering an original examination, re-examination, or renewal for any officer endorsement or rating endorsement:

- a) An applicant must complete all exam modules by testing on consecutive days. The Chief of the REC is permitted to extend the examination testing to up to 24-hours for a mariner who is faced with an emergency which causes them to interrupt testing in mid-cycle. Additionally, mariners who are faced with a closure of an REC for inclement weather, midweek holiday, building evacuations, etc. will be afforded the opportunity to extend their testing by one day for each day the REC is closed.
- b) An applicant may attempt as many modules as can be completed within the normal working hours of the examination room, provided a minimum of **TWO** modules are completed per day, with approximately 3½ hours allowed for each module.
- c) Administration of modules is to be in the order chosen by the applicant at the time the appointment to test was made. If no order is chosen, then the administration of the exams will be made in the order listed in the ESS.
- d) Engineering Modules labeled as Part I and Part II are to be graded individually, and are not to be considered as one module.
- e) **All** of the modules comprising an exam must be completed before beginning retakes of any failed modules.
- f) Applicants for any officer or rating endorsement should not be stopped from testing even if they fail one or two modules. This ensures that the applicant will not be penalized if there is any change to the crediting of the score of an examination module through the challenge process or if a correction to an exam content is determined to be necessary.
- g) If an applicant for an unlimited officer endorsement fails **three (3)** modules at any time during the examination, the candidate is **NOT** to be permitted to continue testing on any ensuing module for that testing series.
- h) A full examination is required in all cases in which an applicant has applied for:
 - i) a change in tonnage groups: **Tonnage Groups** are defined as:
Any Gross Tons (AGT) = GT 1600 GRT /3000 ITC
500 GRT - 1600 GRT = 1200 – 3000 ITC
NMT 200 GRT = NMT 500 ITC
 - ii) A raise in grade: **Raise in Grade** is defined as an increase in the level of authority and responsibility associated with an endorsement.
 - iii) a change in horsepower limitations (Increase in Scope)
 - iv) Exams required to increase the scope of an Existing officer endorsement are listed on each individual ESS for the specific endorsement action. Courses approved in lieu of modules for the action of increasing scope are not permitted to be used in lieu of exam modules where full exams are required. **Increase in Scope** is defined as a change in horsepower or tonnage limitations, or geographic route restrictions.
 - v) Approval to Test Letters, (ATT), are valid for one year from the date of issuance. All exam requirements must be met within the period of validity of an applicant's ATT letter. Once the ATT letter expires a new application must be made and required fees paid. **Any exam scores from prior exam cycles will NOT be carried over once an ATT letter expires.**

2.1.5 Answer Sheets

To gather statistics on the exam questions, NMC-22 is scanning the graded answer sheets into a database.

- a) All original answer sheets must be mailed to the National Maritime Center monthly or when deemed appropriate by the Regional Exam Centers (RECs).
- b) It is essential that an original Merchant Marine Examination Question Selection/Answer Sheet (CG-5164) be utilized for examinations. Copied or reprinted answer sheets fail to scan properly.
- c) The candidate must darken the appropriate spaces for their social security number, module number and test number at the top of the form as well as their choice of answer for each question.
- d) It is the responsibility of the REC examiner to accept COMPLETED ANSWER SHEETS ONLY. DO NOT ACCEPT for grading any CG-5164 whose information block at the top of the form is incomplete. Do not make any administrative marks in the answer fields.

2.1.6 Comments and Challenges

If an applicant believes there is something wrong with a question that prevents it from being answered correctly, they must state in writing all the details regarding the discrepancies on a **Comment-Challenge** sheet.

The applicant **must provide** the reasons for the challenge, all calculations for math problems and what is believed to be the correct answer. All comments, even if they will not affect the candidate's grade, are valuable and will be used to improve the quality of the questions used on future tests.

If the applicant fails the examination module by no more than one question, they will be given the opportunity to review each question for which credit was not given. Immediately after the review and **prior** to leaving the exam room, the candidate may submit a **Challenge Sheet(s)** for no more than two questions as indicated above. Once the applicant has reviewed his or her answer sheet and leaves the exam room for **ANY REASON** before submitting their challenge, the challenge(s) will not be accepted.

Examiners will submit to NMC-22 via fax or e-mail the applicant's **Comment-Challenge** sheet and answer sheet for the exam in question.

2.1.7 Appeal Procedure

IAW 46 CFR 1.03-40 Any person directly affected by a decision or action of an officer or employee of the National Maritime Center (NMC) involving any of the marine safety functions listed in §1.01–15(c) of this subpart may, after requesting reconsideration of the decision or action by the NMC, make a formal appeal of that decision or action, via the NMC, to the Director of Prevention Policy, Commandant (CG–54), in accordance with the procedures contained in §1.03–15 of this subpart. The decision of the Director of Prevention Policy, Commandant (CG–54), on such an appeal will constitute final agency action.

With regard to the exam challenge procedure, the challenge is the re-consideration. If a mariner is unsatisfied with the result of their challenge they have the right to appeal the decision as outlined in the above paragraph.

IAW 46 CFR 1.03-15(c) When making a formal appeal of a decision or action, as permitted by this subpart, such appeal must be submitted in writing and received by the authority to whom the appeal is required to be made within 30 days after the decision or action being appealed, or within 30 days of the last administrative action required by this subpart. Upon written request and for good cause, the 30 day time limit may be extended by the authority to which the appeal is required to be made.

2.1.8 Retest Policy

- a) If an applicant for an upper level officer endorsement as defined in 46 CFR 10.107 fails three or more sections, a complete re-examination must be administered. On the subsequent exam, if the applicant again fails three or more sections, at least **3 months** must lapse before another complete examination is attempted, and a new examination fee is required. If an applicant fails one or two sections of an examination, the applicant may be retested twice as is necessary on each failed section during the next 3 months. If the applicant does not successfully complete each failed section within the three (3) month period, a complete examination must be administered after a lapse of at least three (3) months from the date of the last retest, and a new examination fee is required. The 3 month retest period may be extended by the OCMI if the applicant presents discharges documenting sea time which prevented the taking of a retest during the 3 month period. The retest period may not be extended beyond 7 months from the initial examination (46 CFR 11.217(a)(1)).
- b) The scheduling of examinations **for lower level** officer endorsement as defined in 46 CFR 10.107 will be at the discretion of the OCMI. In the event of a failure, the applicant may be retested twice whenever the examination can be rescheduled with the OCMI. The applicant must be examined in all of the unsatisfactory sections of the preceding examination. If the applicant does not successfully complete all parts of the examination during a 3-month period from the initial test date, a complete reexamination must be taken after a lapse of at least 2 months from the date of the last retest, and a new examination fee is required (46 CFR 11.217(a)(2)).
- c) Upon application for a rating endorsement, any required examination will be given as soon as practicable. An applicant for a rating endorsement who has been duly examined and refused a certificate by the Coast Guard may come before the Coast Guard for reexamination at any time after the date of the initial examination. The Coast Guard sets the time of reexamination based on the applicant's performance on the initial examination. However, the maximum waiting period after the initial failure will be 30 days, and the maximum waiting period after a second or subsequent failure will be 90 days. An applicant who has been examined and refused a certificate by the Coast Guard may not again make application for examination until 30 days after the applicant's last failure of an examination or reexamination (46 CFR 12.02-17).
- d) Applicants failing several portions of an examination or those failing one module with an extremely low score should be encouraged to study before attempting a reexamination.
- e) Retest exam modules are required to be separate and different than the original or previous test modules.

2.1.9 Multiple Ratings

When a candidate requires testing for multiple ratings, the following method for assigning modules will be employed:

- a) Compare all modules from each of the applicable ESS
- b) Modules duplicated only need to be administered once
- c) All other modules for both ratings are required

2.1.10 Oral Assisted Examinations

IAW 46 CFR 11.205(f)(i). Any applicant for a deck or engineering endorsement limited to vessels not exceeding 500 gross tons, or an endorsement limited to uninspected fishing industry vessels, may request an oral-assisted examination in lieu of any written or other textual examination. If there are textual questions that the applicant has difficulty reading and understanding, the OCMI will offer the oral-assisted exam. Each endorsement based on an oral-assisted examination is limited to the specific route and type of vessel upon which the applicant obtained the majority of service.

IAW 46 CFR 12.15-9(a)(c). Each applicant for certification as a qualified member of the engine department (QMED) in the rating of oiler, water-tender, fireman, deck engineer, refrigeration engineer, junior engineer, electrician, or machinist shall be examined orally or by other means and only in the English language on the subjects listed in 46 CFR 12.15-9(b). The applicants' general knowledge of the subjects must be sufficient to satisfy the examiner that he/she is qualified to perform the duties of the rating for which he/she makes application. Please see additional information at the end of this section (Page 1-18).

2.1.11 Renewal Exams

IAW 46 CFR 10.227: Renewal exams are required only if applicant does not have the required sea service for renewal, does not have closely related shore side experience, or has not taken an approved refresher course.

***NOTE:** Deck officer endorsements renewing with closely related shore side experience service must complete a Rules of the Road Examination (see 46 CFR 10.227(i)(D)).*

Renewal Modules are take home exams issued to the mariner by the Regional Exam Centers. It is recommended that completed exams be returned to the Regional Exam Center for grading within thirty days in order to assure the exam cycle, including retakes, is completed within ninety days.

IAW 46 CFR 10.227 (e): Applicants for renewal who do not meet the sea service or exam requirements May be issued a Document of Continuity. Documents of continuity do not expire and are issued solely to maintain an individual's eligibility for renewal. A document of continuity does not entitle an individual to serve as a merchant mariner. A holder of a document of continuity may obtain a properly endorsed, valid MMC at any time by satisfying the requirements for renewal.

A sample copy of the Renewal Exam Letter issued by the Regional Exam Center is provided on [page 1-21](#) of this manual.

2.2 Rules of the Examination Room

1. The normal work hours for this REC are ____ to _____. The exam room will be opened from ____ to ____.
2. Handbags, briefcases, pagers, cellular phones, books, notes, etc. are not allowed in the Exam Room. The applicant is to provide their own plotting equipment. Programmable calculators are not allowed in the exam room. During the examination, the applicant may not refer to any material other than that specifically authorized by the United States Coast Guard.
3. Any applicant engaged in any form of cheating during the exam, such as, referring to concealed notes, communicating with or copying work from other applicants, removing written material from the exam room, or any other dishonest practice, will be dismissed from the exam room and will be considered to have failed the entire exam. A re-exam will not be permitted for six months. Those applicants already holding a Merchant Mariner's Document or Coast Guard endorsement may be summoned to appear before an Administrative Law Judge where their endorsement may be suspended, or revoked, or other penalties assessed.
4. Applicants are not permitted to leave the exam room before a module is completed. Head (restroom) calls are not normally permitted. However, if required, the applicant shall be escorted to insure that no attempt is made to access additional information related to the exam. See Item #3. Upon completion of a module, all reference publications must be returned to their proper location in the exam room. The answer sheet and scratch paper is to be placed inside of the front cover of the booklet and given to the Examiner.
5. Eating and drinking is not permitted in the exam room.
6. Administration of modules is in the order chosen by the applicant at the time the appointment to test was made or before the first module is administered. If no order was chosen, then the administration of the modules will be made in the order listed in the Exam Structure Sheet. An applicant may attempt as many modules as can be completed within the normal working hours of the examination room, provided a minimum of two modules are completed per day, with 3½ hours allowed for each module. **All modules must be completed on consecutive days within the same week.**
7. Once a module has been started, the applicant is obligated to complete it. If an answer sheet is submitted with unanswered questions, these questions will be considered to have been answered incorrectly, which may result in a failing score.
8. Do not write or mark in the test booklets or any reference material. If the applicant notices any marks in a test booklet or in any reference material, please notify the Examiner.
9. The applicant must darken the appropriate spaces for their social security number, module number and test number at the top of the answer sheet form (CG-5164). The Examiner WILL NOT ACCEPT for grading, any answer sheet whose information block at the top of the form is incomplete.
10. If the applicant feels a question is faulty, unclear, or has no correct answer indicated, they should choose the best answer, mark the answer sheet accordingly, and complete a COMMENT-CHALLENGE SHEET provided by the Examiner. Explain as clearly as possible the specific concern or objection to the question. If the applicant feels there is a better answer, he/she must

show how they arrived at their answer including all computations for navigation and other mathematical problems. An answer must be indicated on the answer sheet. Once the applicant has reviewed the answer sheet and leaves the exam room for ANY REASON before submitting their challenge, the challenge will not be accepted.

11. The Examiner is always available to assist the applicant. However, the Examiner cannot discuss question content with the applicant. See Item 10.

I have read and understand the rules as stated above. I also understand that I MUST complete the entire exam, including retests if required, WITHIN 90 DAYS of the beginning of the exam cycle, and WITHIN THE ONE YEAR approval period of the application.

SIGNATURE: _____

DATE: _____

2.3 Comment – Challenge Sheet

(For Coast Guard use only) _____ COMMENT _____ CHALLENGE

APPLICANT'S
NAME _____

MODULE
NAME _____

MODULE NUMBER: ___/___/___/___/___ – ___/___/___/___ QUESTION
NUMBER: _____

If you believe there is something wrong with a question that prevents it being answered correctly, i.e., no correct answer, or that you believe there is more than one correct answer shown, or the question is poorly worded, please submit a Comment sheet. Though your Comment(s) will not affect your grade, they are considered very valuable and will be used to improve the quality of the questions used on future tests.

If you fail the examination module by no more than one question, you will be given the opportunity to review each question for which credit was not given. Immediately after the review, and prior to leaving the exam room, you may submit Challenge sheets for no more than two questions. Provide in the space below, what you believe to be the correct answer. **You must include your reasons and all calculations for math problems such as pump capacity, navigation, stability, or cargo.** Once you have reviewed your answer sheet and leave the exam room **for any reason** prior to submitting a Challenge, the Challenge(s) will not be accepted.

SIGNATURE:

DATE: _____

2.4 Orally Assisted Examinations

Orally assisted examinations are permitted by 46 CFR 11.205(f)(1)(i)¹. Applicants should attempt the standard written examination initially. If they demonstrate difficulty in reading, they may test with an orally assisted examination. This is a time consuming process. Encourage applicants to test with the standard modules and advise them of the limitations to be placed on the endorsement. Only the OCMI/REC is authorized to administer an orally assisted examination.

The following procedures shall be followed in administering an orally assisted examination:

- a. Standard Modules. Candidates will normally be tested with standard examination modules unless a locally prepared module is appropriate.
- b. Reading of Questions. The examiner shall read the questions to the applicant exactly as they are printed in the module. Read the questions in a normal tone of voice with the proper inflections as indicated by normal usage of the English language. When reading the four possible answers, read each one with the same tone. Do not stress or give any other indication of the correct answer. Questions may be repeated once to ensure understanding by the applicant. Do not discuss the content or meaning of either the questions or the possible answers.
- c. Recording of Answers. Record the answers on a standard answer sheet. If standard modules are used to test the applicant, a notation to this effect shall be enclosed in the applicant's file. If locally prepared modules are used, the subjects included in the test must be listed in the file as indicated in 46 CFR 11.205 (f)(1)(ii).
- d. Renewal of Endorsements. Endorsements issued as a result of an orally-assisted examination may be renewed through an oral-assisted renewal exercise.

¹ 46 CFR 11.205 (f)(1)(i): “Any applicant for a deck or engineer officer endorsement limited to vessels not exceeding 500 GRT, or an officer endorsement limited to uninspected fishing-industry vessels, may request an oral-assisted examination in lieu of any written or other textual examination. If there are textual questions that the applicant has difficulty reading and understanding, the OCMI will offer the oral-assisted examination. Each officer endorsement based on an oral-assisted examination is limited to the specific route and type of vessel upon which the applicant obtained the majority of service.”

2.5 Materials Allowed in the Examination Room: Deck Exams

The following charts and materials will be provided in the examination room for use by the Deck endorsement applicants for all modules except the Rules of the Road module.

Table 2-1 Allowable Exam Room Materials

Publication	National Stock Number (NSN)
Chart 12221TR – Chesapeake Bay (Training)	7642-01-401-4083
Chart 12354TR – Long Island Sound (Training)	7642-01-400-7618
Chart 13205TR – Block Island Sound (Training)	7642-01-400-7619
Chart 18531 – Columbia River	7642-01-401-1617
Great Circle Tracking Chart WOXZC5270	7642-01-400-9540
Great Circle Tracking Chart WOXZC5274	7642-01-400-9543
Publication No. 102 – International Code of Signals	7642-01-400-8462
Light List Volume V – Mississippi River System (recent edition)	7642-01-401-1120
Maneuvering Board WOBZP 5090	7642-01-400-9445
Plotting Sheet VPO SX001 – Universal	7642-01-400-9344
Plotting Sheet WOBZP 923 (17° - 24°)	7642-01-400-9447
Plotting Sheet WOBZP 924 (23° - 30°)	7642-01-400-9453
Publication No. 229 – Volume 2, latitudes 15°- 30°	7642-01-400-9225
Publication No. 117 – Radio Navigational Aids	7642-01-401-0071

Although most NGA navigational publications are no longer offered in printed form from US Government sources, authorized reproductions of these publications can still be purchased from commercial vendors. Known commercial vendors of authorized reproductions are listed below:

- ProStar Publications Inc.
- Maryland Nautical
- Landfall Navigation
- American Nautical Services
- Waypoint
- Safe Navigation, Inc.

Order from the National Weather Service: (301) 713-1677 x 129:

- Ship's Code Card, Form WS TA B-O-7
- Ship's Weather Observations WS FORM B-80

Should be distributed automatically by the GPO (202) 512-1800 - Code of Federal Regulations

- 33 CFR Parts 1 to 124 46 CFR Parts 90 to 139
- 33 CFR Parts 125 to 199 46 CFR Parts 140 to 155
- 46 CFR Parts 1 to 40 46 CFR Parts 156 to 165
- 46 CFR Parts 41 to 69 46 CFR Parts 166 to 199
- 46 CFR Parts 70 to 89 49 CFR Parts 100 to 185

CIM 16616.6A, Chemical Data Guide

For "In House" help call: P.O. Mike Kyser (CGHQ)

Telephone (202) 475-3520

Available from any one of the three Corps of Army Engineer Map Sales Offices listed below:

Flood Control and Navigation Maps of the Mississippi River, Cairo, IL to the Gulf of Mexico (Ed. 2007)

- U.S. Army Engineer District - Memphis, TN – (901) 544-3351
- U.S. Army Engineer District – Vicksburg, MS – (601) 634-5710
- U.S. Army Engineer District – New Orleans, LA – (504) 862-1823

Table 2-2 Allowable Exam Room Materials

Publication Title	Publication Number
Operating Manual DEEP DRILLER (MODU exams)	COMDTPUB P16721.29
Operating Manual COASTAL DRILLER (MODU exams)	COMDTPUB P16721.30
Stability Data Reference Book	COMDTPUB P16721.31
Manual for loading the M/V GRAND HAVEN (Great Lakes exams)	COMDTPUB P16721.32
Reprints from the Light Lists and Coast Pilots	COMDTPUB P16721.38
Reprints from the Tide Tables and Tidal Current Tables	COMDTPUB P16721.46
The American Practical Navigator, Volume II – 1981 Edition	HO PUB No.9
Training Nautical Almanac	GPO SN 040-000-00418-1

May be locally produced:

- Stability work sheets
- Radar plotting sheets

May be provided by the applicant:

- Star Finder – 2102-D or equivalent
- Calculator – See Exam Room Materials Section of the Instructions for rules concerning calculator use.
- Plotting tools – i.e. dividers, triangles, nautical slide rule

RENEWAL OPEN-BOOK EXAM(S)

Mariner's Last Name: _____

Mariner#: _____

This letter is in response to your application for renewal of your Merchant Mariner Credential. To fulfill your professional requirements for renewal of your credential you must complete the enclosed open-book renewal exercise(s). Enclosed you will find the following modules:

You may use any reference material to complete the examination. A grade of 90% is required to pass each module. Answer sheet(s) and examinations must be returned to the Regional Examination Center.

Once you receive your examinations, you have a total of three (3) months from the date of this letter to complete the exam cycle (this includes 2nd and 3rd attempts).

Retest Policy.

- a) If after your first attempt, you do not receive a passing score (90%) you will be sent a new examination(s) for a re-test, (provided you are still within the three (3) month test cycle). If you do not receive a passing score on your second attempt, you will receive a third and final examination(s), (provided you are still within the three (3) month test cycle).
- b) For unlimited endorsements if you do not successfully complete all parts of the examination during the three (3) month period from the date the open book exam was sent, a complete re-examination must be taken no sooner than (3) months from the date of the last retest, and a new examination fee is required. Reference 46 CFR 11.217. Payment can be made at www.pay.gov.com > Select Agency List > Select U and then United States Coast Guard > Merchant Mariner User Fee Payment - submit a copy of the receipt to the Regional Exam Center.
- c) All other examinations if you do not successfully complete all parts of the examination during a (3) month period from the date open book exam sent, a complete reexamination must be taken no sooner than (2) months from the date of the last retest, and a new examination fee is required. Reference 46 CFR 11.217. Payment can be made at www.pay.gov.com > Select Agency List > Select U and then United States Coast Guard > Merchant Mariner User Fee Payment - submit a copy of the receipt to the Regional Exam Center.
- d) All testing including retesting must be completed within the original National Maritime Center approval period of 1 year. The above applies to the administration of the exams and does not reduce or extend the original 1 year approval period.

If you have any questions, please feel free to contact the NMC at 1(888) 427-5662.

Figure 2-1 Sample Renewal Open Book Exam Letter

3. ENGINE GUIDANCE

3.1 Administration of Unlimited Engineering Officer Endorsements

3.1.1 Scheduling Exam Time Limits and Grading Policy

A time limit of 3½ hours will be provided to each applicant to complete a test module except as necessary to accommodate the working hours of the examination room. Applicants starting to test in the morning, at the opening of the exam room, should be able to complete a minimum of two modules that day when two or more modules in an examination are to be administered. If they desire, and time permits, they may complete more than two modules. Applicants starting a module late in the afternoon should be advised that it must be completed by the normal closing time; unanswered questions will be graded as wrong answers. An applicant for an upper level endorsement must complete the entire exam on consecutive days. To eliminate confusion the modules should be administered in the published order. A minimum score of 70% is required to pass each module, except for the renewal exercise module, which requires a 90% to pass. All modules for engineers should be graded individually.

3.1.2 Examination Cycles

Subject to the requirements of paragraph 1, the examination cycle may begin on any day, and at anytime during the day as designated by the REC.

3.1.3 Reference Material

Engineering exam illustrations will be provided at the back of each exam module booklet. With the exception of providing the regulations, 46 CFR Parts 1-199 and 33 CFR Parts 1-199, no other reference materials are permitted except for the open book renewal exercise. Only non-programmable calculators are permitted.

3.1.4 Increasing the Scope of Propulsion Mode for Chief, First, Second and Third Assistant Engineers

Applicants wishing to increase the scope of their propulsion mode to STEAM and/or MOTOR are required to be tested with specific modules in the new propulsion area.

3.1.5 Limited Chief Engineer Cross Over to Unlimited Third or Second Assistant Engineer

A Chief Engineer - Limited (Near Coastal) desiring to crossover to Third Assistant Engineer- Unlimited (Motor) is to be tested on all Third Assistant (Motor) modules regardless of the issuing date of their Chief Engineer - Limited endorsement. A Chief Engineer - Limited (Oceans) desiring to crossover to Second Assistant Engineer - Unlimited (Motor) is to be tested on all Second Assistant engine modules regardless of the issuing date of their limited Chief Engineer endorsement. These candidates must also satisfy the requirements of STCW, including documentation of the successful completion of all practical demonstrations. (46 CFR 10.514, 10.516)

3.1.6 Renewal Exercise

The endorsement renewal exercises for Chief, First, Second, and Third Assistant Engineers are consolidated into one open book exercise for each propulsion mode being renewed.

3.1.7 Questions

Any questions regarding engineering endorsement or document examinations should be referred to the [NMC Customer Service Center; 1-888-IASKNMC \(1-888-427-5662\)](mailto:1-888-IASKNMC).

3.1.8 Unlimited Engineering Officer Examinations

3.1.8.1 Operational Level

Exam Title

Original

Third Assistant Engineer (OICEW), Motor

Third Assistant Engineer (OICEW), Steam

Third Assistant Engineer (OICEW), Steam and Motor

Third Assistant Engineer (OICEW), Gas Turbine

Increase in Scope

Third Assistant Engineer (OICEW), Steam, Motor, or Gas Turbine

Raise in Grade

Second Assistant Engineer, Motor

Second Assistant Engineer, Steam

Second Assistant Engineer, Steam and Motor

Increase in Scope

Second Assistant Engineer, Steam, Motor, or Gas Turbine

3.1.8.2 Management Level

Raise in Grade

First Assistant Engineer (Second Engineering Officer), Motor

First Assistant Engineer (Second Engineering Officer), Steam

First Assistant Engineer (Second Engineering Officer), Steam and Motor

Increase in Scope

First Assistant Engineer (Second Engineering Officer), Steam, Motor, or Gas Turbine

Raise in Grade

- Chief Engineer, Motor
- Chief Engineer, Steam
- Chief Engineer, Steam and Motor

Increase in Scope

- Chief Engineer, Steam, Motor, or Gas Turbine

3.1.8.3 Operational & Management Level

Renewal

- Unlimited Engineering, Motor
- Unlimited Engineering, Steam

3.1.9 Quick Reference – Unlimited Engineering Officer Modules

NOTE: X indicates a module that is part of the core exam.

THIRD ASSISTANT ENGINEER (OICEW)

<u>Module</u>	<u>Steam Only</u>	<u>Motor Only</u>	<u>Steam & Motor</u>
Motor Plants, Part I		X	X
Motor Plants, Part II		X	X
Engineering Safety & Environmental Protection	X	X	X
General Subjects	X	X	X
Electricity, Electronics & Control Engineering	X	X	X
Steam Plants, Part I	X		X
Steam Plants, Part II	X		X

SECOND ASSISTANT ENGINEER

<u>Module</u>	<u>Steam Only</u>	<u>Motor Only</u>	<u>Steam & Motor</u>
Motor Plants, Part I		X	X
Motor Plants, Part II		X	X
Engineering Safety & Environmental Protection	X	X	X
General Subjects	X	X	X
Electricity, Electronics & Control Engineering	X	X	X
Steam Plants, Part I	X		X
Steam Plants, Part II	X		X

FIRST ASSISTANT ENGINEER (SECOND ENGINEERING OFFICER)

<u>Module</u>		<u>Steam Only</u>	<u>Motor Only</u>	<u>Steam & Motor</u>
General Subjects, Part I	-	X	X	X
General Subjects, Part II		X	X	X
Steam Plants, Part I		X		X
Electricity, Electronics & Control Engineering		X	X	X
Engineering Safety & Environmental Protection		X	X	X
Motor Plants, Part I			X	X
Endorsement, Steam Plants, Part II		X		X
Endorsement, Motor Plants, Part II			X	X

CHIEF ENGINEER

<u>Module</u>		<u>Steam Only</u>	<u>Motor Only</u>	<u>Steam & Motor</u>
General Subjects, Part I	—	X	X	X
General Subjects, Part II		X	X	X
Steam Plants, Part I		X		X
Electricity, Electronics & Control Engineering		X	X	X
Engineering Safety and Environmental Protection		X	X	X
Motor Plants, Part I			X	X
Endorsement, Steam Plants, Part II		X		X
Endorsement, Motor Plants, Part II			X	X

CHIEF ENGINEER, INCREASE IN SCOPE

<u>Module</u>		<u>Steam to Motor</u>	<u>Motor to Steam</u>
Steam Plants, Part I	-		X
Endorsement, Steam Plants, Part II			X
Motor Plants, Part I		X	
Endorsement, Motor Plants, Part II		X	

RENEWAL EXERCISES

<u>Module</u>		<u>Steam Only</u>	<u>Motor Only</u>
Unlimited Engineering Renewal - Motor	-		X
Unlimited Engineering Renewal - Steam		X	

X indicates a module that is part of the core exam.

3.1.10 Examination Sheets: Unlimited Engineering Officer Endorsements

Endorsement Type-	Third Assistant Engineer (OICEW)	
Endorsement Group-	Unlimited	
Endorsement Action-	Original	
Endorsement Condition-	Motor	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Motor Plants, Part I	70	70
Motor Plants, Part II	70	70
Engineering Safety & Environmental Protection	70	70
General Subjects	70	70
Electricity, Electronics & Control Engineering	70	70

Endorsement Type-	Third Assistant Engineer (OICEW)	
Endorsement Group-	Unlimited	
Endorsement Action-	Original	
Endorsement Condition-	Steam	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Engineering Safety & Environmental Protection	70	70
General Subjects	70	70
Electricity, Electronics & Control Engineering	70	70
Steam Plants, Part I	70	70
Steam Plants, Part II	70	70

Endorsement Type-	Third Assistant Engineer (OICEW)	
Endorsement Group-	Unlimited	
Endorsement Action-	Original	
Endorsement Condition-	Steam and Motor	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Motor Plants, Part I	70	70
Motor Plants, Part II	70	70
Engineering Safety & Environmental Protection	70	70
General Subjects	70	70
Electricity, Electronics & Control Engineering	70	70
Steam Plants, Part I	70	70
Steam Plants, Part II	70	70

Endorsement Type-	Third Assistant Engineer (OICEW)	
Endorsement Group-	Unlimited	
Endorsement Action-	Original	
Endorsement Condition-	Gas Turbine	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Engineering Safety & Environmental Protection	70	70
General Subjects	70	70
Electricity, Electronics & Control Engineering	70	70
Gas Turbine Plants	70	70

Endorsement Type-	Third Assistant Engineer (OICEW)	
Endorsement Group-	Unlimited	
Endorsement Action -	Increase in Scope	
Endorsement Condition-	Steam, Motor, or Gas Turbine	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
From Motor to Steam		
Steam Plants	70	70
Steam Plants Part II	70	70

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
From Steam to Motor		
Motor Plants	70	70
Motor Plants Part II	70	70
From Steam and/or Motor to Gas Turbine		
Gas Turbine Course	OPERATIONAL COURSE	

Endorsement Type-	Second Assistant Engineer	
Endorsement Group-	Unlimited	
Endorsement Action-	Raise in Grade	
Endorsement Condition-	Motor	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Motor Plants, Plants I	70	70
Motor Plants, Part II	70	70
General Subjects	70	70
Electricity, Electronics & Control Engineering	70	70
Engineering Safety & Environmental Protection	70	70

Endorsement Type-	Second Assistant Engineer	
Endorsement Group-	Unlimited	
Endorsement Action-	Raise in Grade	
Endorsement Condition-	Steam	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects	70	70
Electricity, Electronics & Control Engineering	70	70
Engineering Safety & Environmental Protection	70	70
Steam Plants, Part I	70	70
Steam Plants, Part II	70	70

Endorsement Type-	Second Assistant Engineer	
Endorsement Group-	Unlimited	
Endorsement Action-	Raise in Grade	
Endorsement Condition-	Steam and Motor	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Motor Plants, Part I	70	70
Motor Plants, Part II	70	70
General Subjects	70	70
Electricity, Electronics & Control Engineering	70	70
Engineering Safety & Environmental Protection	70	70
Steam Plants, Part I	70	70
Steam Plants, Part II	70	70

Endorsement Type-	Second Assistant Engineer	
Endorsement Group-	Unlimited	
Endorsement Action-	Increase in Scope	
Endorsement Condition-	Steam, Motor, or Gas Turbine	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
From Motor to Steam		
Steam Plants Part I	70	70
Steam Plants Part II	70	70
From Steam to Motor		
Motor Plants Part I	70	70
Motor Plants Part II	70	70
From Steam and/or Motor to Gas Turbine		
Gas Turbine Course	OPERATIONAL LEVEL	

Endorsement Type -	First Assistant (Second Engineering Officer)	
Endorsement Group-	Unlimited	
Endorsement Action-	Raise in Grade	
Endorsement Condition-	Motor	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects, Part I	70	70
General Subjects, Part II	70	70
Electricity, Electronics & Control Engineering	70	70
Engineering Safety & Environmental Protection	70	70
Motor Plants	70	70

Endorsement Type -	First Assistant (Second Engineering Officer)	
Endorsement Group-	Unlimited	
Endorsement Action-	Raise in Grade	
Endorsement Condition-	Steam	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects, Part I	70	70
General Subjects, Part II	70	70
Steam Plants	70	70
Electricity, Electronics & Control Engineering	70	70
Engineering Safety & Environmental Protection	70	70

Endorsement Type -	First Assistant (Second Engineering Officer)	
Endorsement Group-	Unlimited	
Endorsement Action-	Raise in Grade	
Endorsement Condition-	Steam and Motor	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects, Part I	70	70
General Subjects, Part II	70	70
Steam Plants	70	70
Electricity, Electronics & Control Engineering	70	70
Engineering Safety & Environmental Protection	70	70
Motor Plants	70	70

Endorsement Type-	First Assistant (Second Engineering Officer)	
Endorsement Group-	Unlimited	
Endorsement Action-	Increasing Scope	
Endorsement Condition-	Steam, Motor, or Gas Turbine	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
From Motor to Steam		
Steam Plants	70	70
Endorsement Steam Plants Part II	70	70
From Steam to Motor		
Motor Plants	70	70
Endorsement Motor Plants Part II	70	70
From Steam and/or Motor to Gas Turbine		
Gas Turbine Course (Management Level)		

Endorsement Type-	Chief Engineer	
Endorsement Group-	Unlimited	
Endorsement Action-	Raise in Grade	
Endorsement Condition-	Motor	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects, Part I	70	70
General Subjects, Part II	70	70
Electricity, Electronics & Control Engineering	70	70
Engineering Safety & Environmental Protection	70	70
Motor Plants	70	70

Endorsement Type-	Chief Engineer	
Endorsement Group-	Unlimited	
Endorsement Action-	Raise in Grade	
Endorsement Condition-	Steam	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects, Part I	70	70
General Subjects, Part II	70	70
Steam Plants	70	70
Electricity, Electronics & Control Engineering	70	70
Engineering Safety & Environmental Protection	70	70

Endorsement Type-	Chief Engineer	
Endorsement Group-	Unlimited	
Endorsement Action-	Raise in Grade	
Endorsement Condition-	Steam & Motor	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects, Part I	70	70
General Subjects, Part II	70	70
Steam Plants	70	70
Electricity, Electronics & Control Engineering	70	70
Engineering Safety & Environmental Protection	70	70
Motor Plants	70	70

Endorsement Type-	Chief Engineer	
Endorsement Group-	Unlimited	
Endorsement Action-	Increase in Scope	
Endorsement Condition-	Steam, Motor or Gas Turbine	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
From Motor to Steam		
Steam Plants	70	70
Endorsement Steam Plants	70	70

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
From Steam to Motor		
Motor Plants	70	70
Endorsement Motor Plants	70	70
From Steam and/or Motor to Gas Turbine		
Gas Turbine Course (Management Level)		

Endorsement Type -	Engineering (RENEWAL)	
Endorsement Group-	Unlimited	
Endorsement Action -	Renewal	
Endorsement Condition-	Motor	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Unlimited Engineering Renewal Exercise, Motor	70	90

Endorsement Type -	Engineering (RENEWAL)	
Endorsement Group-	Unlimited	
Endorsement Action -	Renewal	
Endorsement Condition -	Steam	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Unlimited Engineering Renewal Exercise, Steam	70	90

NOTE: Renewal exercises are open book.

3.2 Administration of Limited Engineering Officer Endorsements

This section details endorsements for Engineer (OSV), Chief Engineer (OSV), Chief Engineer, UFIV, Assistant Engineer, UFIV, Chief Engineer (Limited), Designated Duty Engineer, and Assistant Engineer (Limited).

3.2.1 Administration of Limited Engineering Officer Exams

3.2.1.1 Overview

The written examination is the final step or capstone in the process for attaining an engineering officer endorsement. All other U. S. Regulatory or STCW requirements must be completed prior to the candidate being examined. Only the motor propulsion mode for limited officer endorsement examinations will be made available to the REC's. The steam propulsion mode for limited power/tonnage engineering endorsements is not considered viable due to the small number of these vessels.

3.2.1.2 Time of Examination and Grading Policy

A time limit of 3½ hours will be provided to each applicant to complete a test module except as necessary to accommodate the working hours of the examination room. Applicants starting to test in the morning, at the opening of the exam room, must complete a minimum of two modules that day when two or more modules in an exam series are to be administered. If time permits, they may complete more than two modules. Applicants starting a module late in the afternoon should be advised that it must be completed by the normal closing time; unanswered questions will be treated as wrong answers. An applicant for a limited officer endorsement must complete the entire exam on consecutive days. All modules are graded separately. A minimum score of 70% is required to pass each module, except for the renewal exercise open book modules, which require 90% to pass.

3.2.1.3 Reference Material

Engineering exam illustrations will be provided at the back of each exam module booklet. With the exception of providing the regulations, 46 CFR Parts 1-199 and 33 CFR Parts 1-199, no other reference materials are permitted except for the open book renewal exercise. Only non-programmable calculators are permitted.

3.2.1.4 Examination Cycles

Subject to the requirements of paragraph 1 and 2, the examination cycle may begin on any workday, and at anytime during the day as designated by the REC.

3.2.1.5 Renewal Exercise

The renewal exercises for all limited engineering officer endorsements have been consolidated into one open book exercise.

3.2.2 Limited Engineer Endorsement Examinations

Exam Title

Assistant Engineer Limited / DDE Unlimited Horsepower

Chief Engineer Limited, Near Coastal

Chief Engineer Limited, Oceans

Engineer, (OSV)

Chief Engineer, (OSV)

Designated Duty Engineer 1000/4000 Horsepower

Assistant Engineer, Uninspected Fishing Industry Vessels

Chief Engineer, Uninspected Fishing Industry Vessels

Limited Engineer Officer Endorsement Renewal

3.2.3 Quick Reference – Limited Engineering Officer Endorsements

NOTE: X indicates a module that is part of the core exam.

3.2.3.1 Assistant Engineer – Limited and Designated Duty Engineer – Unlimited HP

<u>Module</u>	<u>A/E ULTD</u>	<u>DDE ULTD</u>
General Subject.....	X	X
Motor Plants.....	X	X
Engineering Safety & Environmental Protection.....	X	X
Electricity.....	X	X
Steam Plants.....	X	X

3.2.3.2 Chief Engineer – Limited Near Coastal

Module

General Subjects

Motor Plants

Engineering Safety & Environmental Protection

Electricity - Near Coastal

Steam Plants

3.2.3.3 Chief Engineer – Limited Oceans

Module

General Subjects

Motor Plants

Engineering Safety & Environmental Protection

Electricity, Electronics & Control Engineering –Oceans

Steam Plants

3.2.3.4 Engineer - Offshore Supply Vessels

Module Code

General Subjects
Motor Plants
Engineering Safety & Environmental Protection
Electricity
Survival Craft

3.2.3.5 Chief Engineer – Offshore Supply Vessels

Module Code

General Subjects
Motor Plants
Engineering Safety & Environmental Protection
Electricity
Survival Craft

3.2.3.6 Designated Duty Engineer – 1000/4000 HP

Module

General Subjects
Motor Plants
Engineering Safety & Environmental Protection

3.2.3.7 Assistant Engineer - Uninspected Fishing Industry Vessel

Module

General Subjects
Motor Plants
Engineering Safety & Environmental Protection

3.2.3.8 Chief Engineer – Uninspected Fishing Industry Vessel

Module

General Subjects
Motor Plants
Engineering Safety & Environmental Protection

3.2.4 Examination Sheets: Limited Engineer Officer Endorsements

Endorsement Type - Assistant Engineer/ DDE, Unlimited HP		
Endorsement Group- Limited		
Endorsement Action- Original		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects	70	70
Motor Plants	70	70
Engineering Safety & Environmental Protection	70	70
Electricity	70	70
Steam Plants	70	70

Endorsement Type- Chief Engineer		
Endorsement Group- Limited – Near Coastal		
Endorsement Action- Raise in Grade		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects	70	70
Motor Plants	70	70
Engineering Safety & Environmental Protection	70	70
Electricity	70	70
Steam Plants	70	70

Endorsement Type- Chief Engineer		
Endorsement Group- Limited – Oceans		
Endorsement Action- Raise in Grade		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects	70	70
Motor Plants	70	70
Engineering Safety & Environmental Protection	70	70
Electricity and Electronics	70	70
Steam Plants	70	

Endorsement Type-	Engineer	
Endorsement Group-	Limited	
Endorsement Action-	Original	
Endorsement Condition-	OSV	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects	70	70
Motor Plants	70	70
Engineering Safety & Environmental Protection	70	70
Electricity	70	70
Survival Craft	50	70

Endorsement Type -	Chief Engineer	
Endorsement Group -	Limited	
Endorsement Action -	Raise in Grade	
Endorsement Condition -	OSV	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects	70	70
Motor Plants	70	70
Engineering Safety & Environmental Protection	70	70
Electricity	70	70
Survival Craft	50	70

Endorsement Type -	DDE, 1000/4000 HP	
Endorsement Group-	Limited	
Endorsement Action-	Original	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects	50	70
Motor Plants	50	70
Engineering Safety & Environmental Protection	50	70

Endorsement Type - Assistant Engineer Endorsement Group - Limited Endorsement Action - Original Endorsement Condition - UFIV		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects	50	70
Motor Plants	50	70
Engineering Safety & Environmental Protection	50	70

Endorsement Type- Chief Engineer Endorsement Group- Limited Endorsement Action- Original & Raise in Grade Endorsement Condition- UFIV		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects	70	70
Motor Plants	70	70
Engineering Safety & Environmental Protection	70	70

Endorsement Type- Engineering (RENEWAL) Endorsement Group- Limited Endorsement Action- Renewal		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Limited Renewal Exercise.	70	90

NOTE: *Renewal exercises are open book.*

3.3 Administration of Mobile Offshore Drilling Unit (MODU) Examinations

This section details endorsements for Chief Engineer (MODU) and Assistant Engineer (MODU).

3.3.1 Administration of MODU Examinations

3.3.1.1 Time of Examination and Grading Policy

A time limit of 3½ hours will be provided to each applicant to complete a test module except as necessary to accommodate the working hours of the examination room. Applicants starting to test in the morning, at the opening of the exam room, must complete a minimum of two modules that day and may complete more if they desire and time permits. Applicants starting a module late in the afternoon should be advised that it must be completed by the normal closing time; unanswered questions will be treated as wrong answers. An applicant for a Mobile Offshore Drilling Unit (MODU) engineer's officer endorsement must complete the entire exam on consecutive days. A minimum score of 70% is required to pass all modules. All examination modules are graded separately. The renewal exercise module requires a minimum score of 90% to pass.

3.3.1.2 Examination Cycles

Subject to the requirements of the previous paragraph, the examination cycle may begin on any business day and at anytime during the day as designated by the REC.

3.3.1.3 Renewal Exercises

The renewal exercises for chief and assistant Engineers (MODU) have been consolidated into one open book exercise.

3.3.1.4 Reference Material

Engineering exam illustrations will be provided at the back of each exam module booklet. With the exception of providing the regulations, 46 CFR Parts 1-199 and 33 CFR Parts 1-199, no other reference materials are permitted except for the open book renewal exercise. Only non-programmable calculators are permitted.

3.3.1.5 Questions

Any questions should be referred to the [NMC Customer Service Center: 1-888-IASKNMC \(1-888-427-5662\)](tel:1-888-IASKNMC)

3.3.2 Quick Reference – MODU Engineering Officer Endorsements

3.3.2.1 ASSISTANT ENGINEER - MODU:

Module

General Subject

Auxiliary Machine

Engineering Safety & Environmental Protection

3.3.2.2 CHIEF ENGINEER - MODU:

Module

General Subjects

Auxiliary Machinery

Engineering Safety & Environmental Protection

3.3.2.3 ENGINEERING RENEWAL - MODU:

Module

MODU Renewal Exercise

3.3.3 Examination Sheets: MODU Engineer Officer Endorsements

Endorsement Type - Assistant Engineer – MODU Endorsement Group - Original		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects	50	70
Auxiliary Machinery	50	70
Engineering Safety & Environmental Protection	50	70

Endorsement Type - Chief Engineer - MODU Endorsement Group - Raise in Grade		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
General Subjects	70	70
Auxiliary Machinery	70	70
Engineering Safety & Environmental Protection	70	70

Endorsement Type - Engineering (Renewal) Endorsement Group - MODU–Chief and Assistant		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
MODU Renewal Exercise	50	90

3.4 Engine Rating Endorsements

The section details endorsements for Pumpman, Machinst, Electrician, Deck Engineer, Junior Engineer, Oiler: Steam & Motor, Oiler: Motor (Limited), Fireman/Watertender, Refrigerating Engineer, and QMED Renewal Exercise.

3.4.1 Administration of Engine Ratings Endorsement Examinations

Time of Examination and Grading Policy

A time limit of 3½ hours will be provided to each applicant to complete an exam module except as necessary to accommodate the working hours of the examination room. An applicant starting to test in the morning, at the opening of the exam room, may complete a minimum of two modules that day when two different exam modules are requested. They may complete more than two if they desire and time permits. Applicants starting a module late in the afternoon should be advised that it must be completed by the normal closing time; unanswered questions will be treated as wrong answers. A minimum score of 70% is required to pass each module except for the renewal exercise which requires a 90% to pass. All modules are to be graded separately.

Examination Cycles

Subject to the requirements of paragraph 1, the examination cycle may begin on any business day, and at anytime during the day as designated by the REC.

Reference Material

Engineering exam illustrations will be provided at the back of each exam module booklet. With the exception of providing the regulations, 46 CFR Parts 1-199 and 33 CFR Parts 1-199, no other reference materials are permitted except for the open book renewal exercise. Only non-programmable calculators are permitted.

Questions

Any questions should be referred to the [NMC Customer Service Center: 1-888-IASKNMC \(1-888-427-5662\)](tel:1-888-IASKNMC)

3.4.2 Examination Sheets: Engine Rating Endorsement

Endorsement Type - Junior Engineer Endorsement Group - Ratings Endorsement		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Junior Engineer	70	70

Endorsement Type - Deck Engineer Endorsement Group - Ratings Endorsement		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Deck Engineer	70	70

Endorsement Type - Electrician Endorsement Group - Ratings Endorsement		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Electrician	70	70

Endorsement Type - Refrigerating Engineer Endorsement Group - Ratings Endorsement		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Refrigerating Engineer	70	70

Endorsement Type - Machinist Endorsement Group - Ratings Endorsement		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Machinist	70	70

Endorsement Type - Fireman/Watertender Endorsement Group- Ratings Endorsement		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Fireman Watertender	70	70

Endorsement Type - Oiler Endorsement Group - Ratings Endorsement		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Oiler (Steam and Motor)	70	70

Endorsement Type - Pumpman Endorsement Group - Ratings Endorsement		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Pumpman	70	70

Endorsement Type – Oiler-Motor (Limited) Endorsement Group- Ratings Endorsement		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Oiler - Motor (Limited)	70	70

Endorsement Type - Renewal Endorsement Group - Ratings Endorsement		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Renewal Exercise	70	90

4. DECK GUIDANCE

4.1 Summary of Deck Examination

SECTION ONE – OCEANS OR NEAR COASTAL ROUTE	
Unlimited Deck Licenses	
Examination	
Chief Mate/Master (Management)	
Chief Mate/Master (Management) - Renewal/Refresher Exercise	
Third Mate/Second Mate (OICNW)	
Third Mate/Second Mate (OICNW) - Renewal/Refresher Exercise	
Limited Deck Licenses	
Examination	
Master NMT 1600 GRT – Partial Module	
Master NMT 500/1600 GRT	
Mate NMT 500/1600 GRT	
Mate NMT 500/1600 GRT - Renewal/Refresher Exercise	
Master or Mate NMT 200 GRT or Master NMT 100 GRT	
Master/Mate NMT 200 GRT – Partial Module	
Mate NMT 100 GRT – Partial Module	
Operator Uninspected Passenger Vessel	
Uninspected Fishing Vessel License	
Examination	
Master UFIV	
Mate UFIV	

SECTION ONE – OCEANS OR NEAR COASTAL ROUTE (continued)

Offshore Supply Vessel Licenses

Examination

Master or Chief Mate

Mate

SECTION TWO – GREAT LAKES and INLAND or INLAND ROUTES

Unlimited Deck Licenses

Examination

Master

Mate

Master/Mate – Renewal/Refresher Exercise

Limited Deck Licenses

Examination

Master NMT 500/1600 GRT

Mate NMT 500/1600 GRT

Master/Mate NMT 500/1600 GRT - Renewal/Refresher Exercise

Master/Mate NMT 200 GRT or Master NMT 100 GRT

Master/Mate NMT 200 GRT – Partial Module

Mate NMT 100 GRT – Partial Module

Operator Uninspected Passenger Vessel

SECTION TWO – GREAT LAKES and INLAND or INLAND ROUTES (cont.)

River Routes

Examination

Master AGT NMT 500/1600 GRT

Mate NMT 500/1600 GRT

Mate NMT 500/1600 GRT - Renewal/Refresher Exercise

Master/Mate NMT 200 GRT or Master NMT 100 GRT

Towing Vessel Licenses

Examination

Master/Mate Pilot/Apprentice Mate Steersman Oceans or Near Coastal

Master/Mate Pilot/Apprentice Mate Steersman Great Lakes and Inland

Master/Mate Pilot/Apprentice Mate Steersman Western Rivers

Mobile Offshore Drilling Unit Licenses

Examination

Offshore Installation Manager – Unrestricted

Offshore Installation Manager – Surface Units on Location

Offshore Installation Manager – Surface Units Underway

Offshore Installation Manager – Bottom Bearing Units on Location

Offshore Installation Manager – Bottom Bearing Units Underway

Offshore Installation Manager – Renewal/Refresher Exercise

Barge Supervisor

Ballast Control Officer

SECTION TWO – GREAT LAKES and INLAND or INLAND ROUTES (cont.)

Rules of the Road Modules

Examination

Rules of the Road: Inland and International

Rules of the Road: OUPV-Restricted

Rules of the Road: Inland and International – Renewal/Refresher Exercise

Rules of the Road: Inland

Rules of the Road: Inland – Renewal/Refresher Exercise

Navigation Modules

Examination

Navigation General – Any Appropriate License

Navigation Problems – Any Appropriate License

First Class Pilot Licenses

Examination

First Class Pilot Any Appropriate Tonnage

Towing/Sailing Endorsements

Module Name

Assistance Towing Endorsement

Sail Endorsement

SECTION THREE – SUPPORT LEVEL ENDORSEMENTS

Able Seaman
Able Seaman – Unlimited/Limited/Special/Fishing Industry
Able Seaman – Offshore Supply Vessel
Able Seaman – Sail
Lifeboatman
Lifeboatman
Lifeboatman – Limited
Tankerman
Tankerman Person in Charge/Engineer Dangerous Liquids
Tankerman Person in Charge/Engineer Liquefied Gases
Tankerman Person in Charge Barge Dangerous Liquids
Tankerman Person in Charge Barge Liquefied Gases
Tankerman Assistant Dangerous Liquids
Tankerman Assistant Liquefied Gases

4.2 Information Oceans or Near Coastal Routes

4.2.1 Ocean Routes

- IAW 46CFR10.107 the term **Oceans** means the waters seaward of the Boundary Lines as described in 46 CFR part 7. For the purposes of establishing sea service credit, the waters of the Inside Passage between Puget Sound and Cape Spencer, Alaska, are not considered oceans.
- IAW 46CFR11.401(a) Any license or MMC endorsement for service as master or mate on ocean waters qualifies the mariner to serve in the same grade on any waters, subject to the limitations of the endorsement.

4.2.2 Near Coastal Routes

- IAW 46CFR10.107 the term **Near Coastal** means ocean waters not more than 200 miles offshore.

- IAW 46CFR11.401 (b) A license or MMC endorsement issued for service as master or mate on near-coastal waters qualifies the mariner to serve in the same grade on near-coastal, Great Lakes, and inland waters, subject to the limitations of the endorsement.
- Information on License Endorsement Requirements

4.2.3 License Endorsement Requirements (IAW 46CFR11.401)

- In order to obtain a master or mate endorsement with a tonnage limit above 200 gross tons, or an endorsement for 200 gross tons or less with an ocean route, whether an original, raise in grade, or increase in the scope of the endorsement authority to a higher tonnage category, the applicant must successfully complete the following training and examination requirements:
 - (1) Approved firefighting course;
 - (2) Approved radar-observer course; and
 - (3) Qualification as an able seaman unlimited or able seaman limited (able seaman special or able seaman offshore supply vessels satisfy the able seaman requirement for endorsements permitting service on vessels of 1,600 gross tons or less).
- Each applicant for a deck officer endorsement, which authorizes service on vessels above 1,600 gross tons on ocean or near-coastal waters, whether original or raise of grade, must pass a practical-signaling examination (flashing light). An applicant who fails in practical signaling, but passes every other part of the examination, may be issued an endorsement with a 1,600 gross ton limitation. The tonnage limitation can be removed upon successful completion of the signaling examination.

4.3 Examination Index – Oceans OR Near Coastal License Endorsements

4.3.1 Any Gross Registered Tons (AGT)

Management Level

- Raise in Grade
Chief Mate/Master AGT Oceans or Near Coastal
- Increase in Scope
Master/Chief Mate AGT Near Coastal to Oceans
- Renewal
Master/Chief Mate AGT Oceans and Near Coastal or Near Coastal

Operational Level

- Original /Raise in Grade
Third Mate/Second Mate AGT Oceans or Near Coastal
- Increase in Scope
Third Mate/Second Mate AGT Near Coastal to Oceans
- Renewal
Third Mate/Second Mate AGT Oceans or Near Coastal

4.3.2 Limited Tonnage NMT 500/1600 Gross Registered Tons (GRT)

- **Raise in Grade or Increase in Scope**
Master NMT 500/1600 GRT Oceans or Near Coastal
- **Increase in Scope**
Master NMT 500/1600 GRT Near Coastal to Oceans
- **Renewal**
Master NMT 500/1600 GRT Oceans or Near Coastal
- **Original Issue or Increase in Scope**
Mate NMT 500/1600 GRT Oceans or Near Coastal
- **Increase in Scope**
Mate NMT 500/1600 GRT Near Coastal to Oceans
- **Renewal**
Mate NMT 500/1600 GRT Oceans or Near Coastal

4.3.3 Limited Tonnage NMT 200 Gross Registered Tons (GRT) and Below

- **Original Issue or Raise in Grade**
Master NMT 200 GRT Oceans or Near Coastal
- **Increase in Scope**
Master NMT 100 GRT Near Coastal to Master NMT 200 GRT Near Coastal
Master NMT 200 GRT Near Coastal to Oceans
Mate/Master NMT 200 GRT Near Coastal (from Great Lakes & Inland or Inland)
- **Renewal**
Master NMT 200 GRT Oceans or Near Coastal
- **Original Issue or Raise in Grade**
Mate NMT 200 GRT Near Coastal
- **Renewal**
Mate NMT 200 GRT Near Coastal
- **Original Issue or Raise in Grade**
Master NMT 100 GRT Near Coastal
- **Increase in Scope**
Master NMT 100 GRT Near Coastal (from Great Lakes & Inland or Inland)
- **Renewal**
Master NMT 100 GRT Near Coastal
- **Original Issue**
Operator Uninspected Passenger Vessel Near Coastal
- **Increase in Scope**
Operator Uninspected Passenger Vessel Near Coastal (from Great Lakes & Inland or Inland)
- **Renewal**
Operator Uninspected Passenger Vessel Near Coastal

4.3.4 Uninspected Fishing Vessels (UFIV) Any Appropriate Tonnage

- **Original Issue or Raise in Grade**
Master UFIV Oceans or Near Coastal
- **Increase in Scope**
Master UFIV Near Coastal to Oceans
- **Renewal**
Master UFIV Oceans or Near Coastal
- **Original Issue**
Mate UFIV Oceans or Near Coastal
- **Increase in Scope**
Mate UFIV Near Coastal to Oceans
- **Renewal**
Mate UFIV Oceans or Near Coastal

4.3.5 Offshore Supply Vessels (OSV) Any Appropriate Tonnage

- **Raise in Grade**
Master OSV Oceans or Near Coastal
Chief Mate OSV Oceans or Near Coastal
- **Increase in Scope**
Master/Chief Mate OSV Near Coastal to Oceans
- **Original Issue**
Mate OSV Oceans or Near Coastal
- **Increase in Scope**
Mate OSV Near Coastal to Oceans
- **Renewal**
Master/Chief Mate/Mate OSV Oceans or Near Coastal

4.3.6 Additional Endorsements Any Appropriate Tonnage

- Master or Mate Auxiliary Sail Oceans or Near Coastal
- Master or Mate Assistance Towing Oceans or Near Coastal

4.3.7 Examination Sheets – Oceans/Near Coastal License Endorsement

Endorsement -	CHIEF MATE/MASTER	
Tonnage Group-	ANY GROSS REGISTERED TONS (AGT)	
Route-	OCEANS OR NEAR COASTAL	
Action-	RAISE IN GRADE (from Second Mate/Chief Mate AGT-O or NC.)	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Deck General: Part A	50	70
Deck General: Part B	50	70
Navigation General	70	70
Deck Safety and Environmental Protection	70	70
Deck Safety: Stability	15	70
Navigation Problems: Chart Plot	10	90
Navigation Problems: Near Coastal	10	90
Navigation Problems: Oceans (Ocean Routes Only)	15	80

* **SERVICE REQUIREMENT for CHIEF MATE**

46CFR 11.405

* **SERVICE REQUIREMENT for MASTER**

46CFR 11.404

Endorsement -	CHIEF MATE/ MASTER	
Tonnage Group-	ANY GROSS REGISTERED TONS (AGT)	
Route-	OCEANS	
Action-	INCREASE IN SCOPE (from Near Coastal)	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Ocean Navigation Problems	15	80
Navigation General	20	70

* **SERVICE REQUIREMENT**

46CFR 11.401(e)

Endorsement -	CHIEF MATE/ MASTER	
Tonnage Group-	ANY GROSS REGISTERED TONS (AGT)	
Route-	OCEANS OR NEAR COASTAL	
Action-	RENEWAL	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	30	90
Refresher Exercise	50	90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement -	THIRD MATE/SECOND MATE	
Tonnage Group-	ANY GROSS REGISTERED TONS (AGT)	
Route-	OCEANS OR NEAR COASTAL	
Action-	ORIGINAL ISSUE	
	RAISE IN GRADE (from Third Mate AGT O or NC)	
	INCREASE IN SCOPE (from Master AGT GL & I or I)	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Deck General	70	70
Navigation General	70	70
Deck Safety and Environmental Protection	70	70
Navigation Problems: Chart Plot	15	87
Navigation Problems: Near Coastal	10	90
Navigation Problems: Oceans (Ocean Routes Only)	15	80

* **SERVICE REQUIREMENT for THIRD MATE**

46CFR 11.407

* **SERVICE REQUIREMENT for SECOND MATE**

46CFR 11.406

Endorsement - THIRD MATE/SECOND MATE Tonnage Group- ANY GROSS REGISTERED TONS (AGT) Route- OCEANS Action- INCREASE IN SCOPE (from NC)		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Navigation Problems: Oceans	15	80
Navigation General	20	70

* **SERVICE REQUIREMENT**

46CFR 11.401(e)

Endorsement - THIRD MATE/SECOND MATE Tonnage Group- ANY GROSS REGISTERED TONS (AGT) Route- OCEANS or NEAR COASTAL Action- RENEWAL		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	30	90
Refresher Exercise	50	90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement - MASTER Tonnage Group- NMT 500/1600 GROSS REGISTERED TONS Route- OCEANS OR NEAR COASTAL Action- RAISE IN GRADE (from Mate NMT 500 GRT O or NC) RAISE IN GRADE (from Mate NMT 1600 GRT O or NC) INCREASE IN SCOPE (from Master NMT 500 GRT O or NC)		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Deck General	50	70
Navigation General: (Near Coastal Routes Only)	50	70
Navigation General: Oceans (Ocean Routes Only)	50	70
Deck Safety and Environmental Protection	50	70
Navigation Problems: Chart Plot	10	90
Navigation Problems: Near Coastal	10	90
Navigation Problems: Oceans (Ocean Routes Only)	15	80

* **SERVICE REQUIREMENT for MASTER NMT 500**

46CFR 11.418

46CFR 11.418(b): Applicants holding an endorsement as Master or Mate Pilot of Towing Vessels Oceans or Near Coastal who meet the sea service requirement can raise the grade of their license to Master NMT 500 GRT on the same route, and **ONLY** the following modules are required:

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Deck General	70	70
Deck Safety and Environmental Protection	50	70

* **SERVICE REQUIREMENT for MASTER NMT 1600**

46CFR 11.412

Endorsement - MASTER Tonnage Group- NMT 500/1600 GROSS REGISTERED TONS Route- OCEANS Action- INCREASE IN SCOPE (from NC)		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Navigation Problems: Oceans	15	80
Navigation General	20	70

* **SERVICE REQUIREMENT**

None

Endorsement - MASTER Tonnage Group- NMT 500/1600 GROSS REGISTERED TONS Route- OCEANS or NEAR COASTAL Action- RENEWAL		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road International and Inland	30	90
Refresher Exercise	30	90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement - **MATE**
 Tonnage Group-**NMT 500/1600 GROSS REGISTERED TONS**
 Route- **OCEANS OR NEAR COASTAL**
 Action- **ORIGINAL ISSUE**
INCREASE IN SCOPE (from Mate NMT 500 GRT O or NC)

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Deck General	70	70
Navigation General: Near Coastal (Near Coastal Routes Only)	70	70
Navigation General: Oceans (Ocean Routes Only)	70	70
Deck Safety and Environmental Protection	70	70
Navigation Problems: Chart Plot	15	87
Navigation Problems: Near Coastal	10	90
Navigation Problems: Oceans (Ocean Routes Only)	15	80

- * **SERVICE REQUIREMENT for Mate NMT 500 Oceans** **46CFR 11.420**
- * **SERVICE REQUIREMENT for Mate NMT 500 Near Coastal** **46CFR 11.421**
- * **SERVICE REQUIREMENT for Mate NMT 1600 Oceans** **46CFR 11.414**
- * **SERVICE REQUIREMENT for Mate NMT 1600 Near Coastal** **46CFR 11.416**

Endorsement - **MATE**
 Tonnage Group- **NMT 500/1600 GROSS REGISTERED TONS**
 Route- **OCEANS**
 Action- **INCREASE IN SCOPE (from NC)**

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Navigation Problems: Oceans	15	80
Navigation General	20	70

- * **SERVICE REQUIREMENT** **46CFR 11.414**

Endorsement - MATE Tonnage Group- NMT 500/1600 GROSS REGISTERED TONS Route- OCEANS OR NEAR COASTAL Action- RENEWAL		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	30	90
Refresher Exercise	50	90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement - MASTER Tonnage Group- NMT 200 GROSS REGISTERED TONS Route- OCEANS OR NEAR COASTAL Action- ORIGINAL ISSUE RAISE IN GRADE (from Mate NMT 200 GRT NC)		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Deck General	20	70
Navigation General	20	70
Deck Safety and Environmental Protection	70	70
Navigation Problems: Chart Plot	20	90
Navigation Problems: Oceans (Ocean Routes Only)	5	80

* **SERVICE REQUIREMENT for Oceans**

46CFR 11.424

* **SERVICE REQUIREMENT for Near Coastal**

46CFR 11.426

Endorsement - MASTER Tonnage Group- NMT 200 GROSS REGISTERED TONS Route- NEAR COASTAL OR OCEANS Action- RAISE IN GRADE (from Master of Towing Vessels O or NC)		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Deck General	20	70
Deck Safety and Environmental Protection	70	70

Endorsement - MASTER Tonnage Group- NMT 200 GROSS REGISTERED TONS Route- NEAR COASTAL Action- INCREASE IN SCOPE (from Master NMT 100 GRT NC)		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Deck General	20	70
Navigation Problems: Chart Plot	20	90

* **SERVICE REQUIREMENT**

46CFR 11.426

Endorsement - MASTER Tonnage Group- NMT 200 GROSS REGISTERED TONS Route- OCEANS Action- INCREASE IN SCOPE (from NC) EXAM CODE		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Navigation Problems: Oceans	5	80

* **SERVICE REQUIREMENT**

46CFR 11.424

Endorsement - MATE /MASTER Tonnage Group- NMT 200 GROSS REGISTERED TONS Route- NEAR COASTAL Action- INCREASE IN SCOPE (from Great Lakes & Inland OR Inland)		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Deck General	20	70
Deck Safety and Environmental Protection	70	70

* **SERVICE REQUIREMENT for Master**

46CFR 11.426

* **SERVICE REQUIREMENT for Mate**

46CFR 11.427

Endorsement -	MASTER	
Tonnage Group-	NMT 200 GROSS REGISTERED TONS	
Route-	OCEANS OR NEAR COASTAL	
Action-	RENEWAL	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: International and Inland	30
	Refresher Exercise	20
		MINIMUM SCORE
		90
		90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement -	MATE	
Tonnage Group-	NMT 200 GROSS REGISTERED TONS	
Route-	NEAR COASTAL	
Action-	ORIGINAL ISSUE	
	RAISE IN GRADE (from OUPV NC)	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: International and Inland	50
	Deck General	20
	Navigation General	20
	Deck Safety and Environmental Protection	70
	Navigation Problems: Chart Plot	20
		MINIMUM SCORE
		90
		70
		70
		90

* **SERVICE REQUIREMENT**

46CFR 11.427

When Raising Grade **from** Operator Uninspected Passenger Vessel Near Coastal **ONLY**, the following module is required:

	MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
	Deck General	10	70

* **LICENSING NOTES**

When raising grade from Master NMT 100 GRT Near Coastal, **ONLY** the following modules are required: 054XX, 011X3, 073XX.

Endorsement -	MATE		
Tonnage Group-	NMT 200 GROSS REGISTERED TONS		
Route-	NEAR COASTAL		
Action-	RENEWAL		
MODULES		NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland		30	90
Refresher Exercise		20	90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement -	MASTER		
Tonnage Group-	NMT 100 GROSS REGISTERED TONS		
Route-	NEAR COASTAL		
Action-	ORIGINAL ISSUE RAISE IN GRADE (from OUPV NC)		
MODULES		NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland		50	90
Navigation General		20	70
Deck Safety and Environmental Protection		70	70
Navigation Problems: Chart Plot		20	90

* **SERVICE REQUIREMENT**

46CFR 11.428

* **LICENSING NOTES**

When Raising Grade **from** Operator Uninspected Passenger Vessel Near Coastal **ONLY** the following module is required:

MODULES		NUMBER OF QUESTIONS	MINIMUM SCORE
Deck Safety and Environmental Protection		70	70

Endorsement - **MASTER**
 Tonnage Group- **NMT 100 GROSS REGISTERED TONS**
 Route- **NEAR COASTAL**
 Action- **INCREASE IN SCOPE (from Great Lakes & Inland or Inland)**

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Deck Safety and Environmental Protection	70	70

* **SERVICE REQUIREMENT**

46CFR 11.428

Endorsement - **MASTER**
 Tonnage Group- **NMT 100 GROSS REGISTERED TONS**
 Route- **NEAR COASTAL**
 Action- **RENEWAL**

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	30	90
Refresher Exercise	20	90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement - **OPERATOR**
 Tonnage Group- **UNINSPECTED PASSENGER VESSEL**
 Route- **NEAR COASTAL**
 Action- **ORIGINAL ISSUE**

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Navigation General	20	70
Deck Safety and Environmental Protection	60	70
Navigation Problems: Chart Plot	10	70

* **SERVICE REQUIREMENT**

46CFR 11.467

Endorsement -	OPERATOR	
Tonnage Group-	UNINSPECTED PASSENGER VESSEL	
Route-	GREAT LAKES AND INLAND OR INLAND	
Action-	INCREASE IN SCOPE (to Near Coastal)	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: International and Inland	50
		MINIMUM SCORE
		90

* **SERVICE REQUIREMENT**

46CFR 11.467

Endorsement -	OPERATOR	
Tonnage Group-	UNINSPECTED PASSENGER VESSEL	
Route-	NEAR COASTAL	
Action-	RENEWAL	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: International and Inland	30
	Refresher Exercise	20
		MINIMUM SCORE
		90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement -	MASTER UNINSPECTED FISHING VESSEL	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	OCEANS OR NEAR COASTAL	
Action-	ORIGINAL RAISE IN GRADE (from Mate UFIV O or NC)	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: International and Inland	50
	Navigation General	20
	Deck Safety and Environmental Protection	50
	Navigation Problems: Chart Plot	20
	Navigation Problems: Oceans	10
		MINIMUM SCORE
		90

* **SERVICE REQUIREMENT**

46CFR 11.462

* **SERVICE REQUIREMENT for Chief Mate**

46CFR 11.495

STCW Regulation II/2

* **SERVICE REQUIREMENT for Master**

46CFR 11.493

STCW Regulation II/2

Endorsement - MASTER or CHIEF MATE OSV Tonnage Group- ANY APPROPRIATE TONNAGE Route- OCEANS Action- INCREASE IN SCOPE (from NC)		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Navigation Problems: Oceans	15	80
Navigation General	20	70

* **SERVICE REQUIREMENT** **None**

Endorsement - MATE OSV Tonnage Group- ANY APPROPRIATE TONNAGE Route- OCEANS OR NEAR COASTAL Action- ORIGINAL		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Deck General	70	70
Navigation General: Near Coastal (Near Coastal Routes Only)	70	70
Navigation General: Oceans (Ocean Routes Only)	70	70
Deck Safety and Environmental Protection	70	70
Navigation Problems: Chart Plot	15	87
Navigation Problems: Near Coastal	10	90
Navigation Problems: Oceans (Ocean Routes Only)	15	80

* **SERVICE REQUIREMENT**

46CFR 11.497

Endorsement - Tonnage Group- Route- Action-	ASSISTANCE TOWING MASTER OR MATE 200 GROSS REGISTERED TONS OR LESS OCEANS OR NEAR COASTAL ENDORSEMENT	
	MODULES	NUMBER OF QUESTIONS
Deck General		20
		MINIMUM SCORE
		70

* **SERVICE REQUIREMENT**

46CFR 11.482

Specific time is not required

4.4 Examination Index - Great Lakes and Inland or Inland Routes

4.4.1 Information

- **Great Lakes and Inland Routes**

IAW 46CFR10.107 the term Great Lakes means the Great Lakes and their connecting and tributary waters including the Calumet River as far as the Thomas J. O'Brien Lock and Controlling Works (between mile 326 and 327), the Chicago River as far as the east side of the Ashland Avenue Bridge (between mile 321 and 322), and the Saint Lawrence River as far east as the lower exit of Saint Lambert Lock. For purposes of requiring merchant mariner credentials with rating endorsements, the connecting and tributary waters are not part of the Great Lakes.

IAW 46CFR11.430 Any license or MMC endorsement issued for service on the Great Lakes and inland waters is valid on all of the inland waters of the United States as defined in this part.

- Great Lakes waters include Inland waters.
- MMC's endorsed for the Great Lakes read: "Great Lakes and Inland Waters"

- **Inland Routes**

IAW 46CFR10.107 the term Inland means the navigable waters of the United States shoreward of the Boundary Lines as described in part 7 of this chapter, excluding the Great Lakes, and, for towing vessels, excluding the Western Rivers. For establishing credit for sea service, the waters of the Inside Passage between Puget Sound and Cape Spencer, Alaska, are inland waters.

IAW 46CFR11.430 Any license or MMC endorsement issued for service on inland waters is valid for the inland waters of the United States, excluding the Great Lakes. Licenses and MMC endorsements with either a Great Lakes and inland or an inland route are valid for service on the sheltered waters of the Inside Passage between Puget Sound and Cape Spencer, Alaska. As these licenses and MMC endorsements authorize service on waters seaward of the International Regulations for Preventing Collisions at Sea (COLREGS) demarcation line as defined in 33 CFR Part 80, the applicant must complete an examination on the COLREGS or the endorsement must exclude such waters.

- Applicants requesting Great Lakes and Inland or Inland officer endorsements are required to complete a Rules of the Road module covering Inland Rules of the Road. A geographic

COLREGS limitation will be endorsed on the applicants MMD upon successful completion of this module.

- If the applicant wishes to remove the geographic COLREGS limitation they are required to complete a Rules of the Road module, covering International and Inland Rules of the Road.

4.4.2 Great Lakes and Inland OR Inland License Endorsements

4.4.2.1 Any Gross Registered Tons (AGT)

- **Raise in Grade**
Master AGT Great Lakes and Inland or Inland
- **Increase in Scope**
Master AGT Inland to Great Lakes and Inland
- **Original**
Mate AGT Great Lakes and Inland
- **Renewal**
Master/Mate AGT Great Lakes and Inland

4.4.2.2 Limited Tonnage NMT 500-1600 Gross Registered Tons

- **Raise in Grade**
Master NMT 500/1600 GRT Great Lakes and Inland
- **Original**
Mate NMT 500/1600 GRT Great Lakes and Inland
- **Renewal**
Master/Mate NMT 500/1600 GRT Great Lakes and Inland

4.4.2.3 Limited Tonnage NMT 200 Gross Registered Tons (GRT)

- **Raise in Grade or Increase in Scope**
Master NMT 200 GRT Great Lakes and Inland or Inland
- **Original Issue or Raise in Grade**
Mate NMT 200 GRT Great Lakes and Inland or Inland
- **Original Issue**
Master NMT 100 GRT Great Lakes and Inland or Inland
- **Renewal**
Mate/Master NMT 200 GRT Great Lakes and Inland or Inland
Master NMT 100 GRT Great Lakes and Inland or Inland
- **Original Issue**
Operator Uninspected Passenger Vessel Great Lakes and Inland or Inland
Operator Uninspected Passenger Vessel Restricted
- **Renewal**
Operator Uninspected Passenger Vessel Great Lakes and Inland or Inland

4.4.2.4 Additional Endorsements Any Appropriate Tonnage

- Master or Mate Auxiliary Sail Great Lakes and Inland or Inland
- Master or Mate Assistance Towing Great Lakes and Inland or Inland

4.4.3 Examination Sheets – Great Lakes and Inland Or Inland License Endorsements

Endorsement -	MASTER	
Tonnage Group-	ANY GROSS REGISTERED TONS (AGT)	
Route-	GREAT LAKES AND INLAND OR INLAND	
Action-	RAISE IN GRADE (from MATE AGT GL & I) RAISE IN GRADE (from First Class Pilot)	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: Inland	30
	Deck General	70
	Navigation General	20
	Deck Safety and Environmental Protection	50
	Navigation Problems: Chart Plot	20
	Great Lakes Topics (Great Lakes & Inland Routes)	25
		MINIMUM SCORE
		90
		70
		70
		70
		90
		70

* **SERVICE REQUIREMENT for Great Lakes & Inland**

46CFR 11.433

* **SERVICE REQUIREMENT for Inland**

46CFR 11.435

Endorsement -	MASTER	
Tonnage Group-	ANY GROSS REGISTERED TONS (AGT)	
Route-	GREAT LAKES AND INLAND	
Action-	INCREASE IN SCOPE (from I)	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: International and Inland	50
	Great Lakes Topics	25
		MINIMUM SCORE
		90
		70

* **SERVICE REQUIREMENT**

46CFR 11.433

Endorsement -	MATE	
Tonnage Group-	ANY GROSS REGISTERED TONS (AGT)	
Route-	GREAT LAKES AND INLAND	
Action-	ORIGINAL ISSUE	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: Inland	30
	Deck General	70
	Navigation General	20
	Deck Safety and Environmental Protection	50
	Navigation Problems: Chart Plot	20
	Great Lakes Topics	25
		MINIMUM SCORE
		90
		70
		70
		70
		90
		70

* **SERVICE REQUIREMENT**

46CFR 11.437

Endorsement -	MASTER/MATE	
Tonnage Group-	ANY GROSS REGISTERED TONS (AGT)	
Route-	GREAT LAKES AND INLAND OR INLAND	
Action-	RENEWAL	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: Inland	30
	Refresher Exercise	40
		MINIMUM SCORE
		90
		90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement -	MASTER
Tonnage Group-	NMT 500/1600 GROSS REGISTERED TONS
Route-	GREAT LAKES AND INLAND
Action-	RAISE IN GRADE (From Mate NMT 500/1600 GRT GL & I) RAISE IN GRADE (From Master of Towing Vessels)

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: Inland	30	90
Navigation General	20	70
Deck General, Deck Safety and Environmental Protection	60	70
Navigation Problems: Chart Plot	20	90
Great Lakes Topics	25	70

* **SERVICE REQUIREMENT for NMT 500**

46CFR 11.446

* **SERVICE REQUIREMENT for NMT 1600**

46CFR 11.442

Endorsement -	MATE
Tonnage Group-	NMT 500/1600 GROSS REGISTERED TONS
Route-	GREAT LAKES AND INLAND
Action-	ORIGINAL ISSUE

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: Inland	30	90
Navigation General	20	70
Deck General, Deck Safety and Environmental Protection	60	70
Navigation Problems: Chart Plot	20	90
Great Lakes Topics	25	70

* **SERVICE REQUIREMENT for NMT 500**

46CFR 11.448

* **SERVICE REQUIREMENT for NMT 1600**

46CFR 11.444

Endorsement -	MASTER/MATE	
Tonnage Group-	NMT 500/1600 GROSS REGISTERED TONS	
Route-	GREAT LAKES AND INLAND	
Action-	RENEWAL	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: Inland	30
	Refresher Exercise	40
		MINIMUM SCORE
		90
		90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement-	MASTER	
Tonnage Group-	NMT 200 GROSS REGISTERED TONS	
Route-	GREAT LAKES AND INLAND OR INLAND	
Action-	ORIGINAL ISSUE	
	RAISE IN GRADE (from Mate NMT 200 GRT GL & I)	
	INCREASE IN SCOPE (from Master NMT 100 GRT GL & I or I)	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: Inland	30
	Deck General	20
	Navigation General	20
	Deck Safety and Environmental Protection	60
	Navigation Problems: Chart Plot	20
		MINIMUM SCORE
		90
		70
		70
		70
		90

* **SERVICE REQUIREMENT for Great Lakes & Inland**

46CFR 11.452

* **SERVICE REQUIREMENT for Inland**

46CFR 11.452

Endorsement -	MATE
Tonnage Group-	NMT 200 GROSS REGISTERED TONS
Route-	GREAT LAKES AND INLAND OR INLAND
Action-	ORIGINAL ISSUE RAISE IN GRADE (from Master NMT 100 GRT GL & I or I) RAISE IN GRADE (from OUPV GL & I or I)

MODULES	NUMBER OF QUESTIONS	MINIMUM
Rules of the Road: Inland	30	90
Deck General	20	70
Navigation General	20	70
Deck Safety and Environmental Protection	60	70
Navigation Problems: Chart Plot	20	90

* **SERVICE REQUIREMENT for Great Lakes & Inland** **46CFR 11.454**

* **SERVICE REQUIREMENT for Inland** **46CFR 11.454**

When Raising Grade from Operator Uninspected Passenger Vessels Great Lakes and Inland or Inland ONLY the following modules are required:

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Deck General	10	70

Endorsement -	MASTER
Tonnage Group-	NMT 100 GROSS REGISTERED TONS
Route-	GREAT LAKES AND INLAND OR INLAND
Action-	ORIGINAL ISSUE

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: Inland	30	90
Navigation General	20	70
Deck General, Deck Safety and Environmental Protection	60	70
Navigation Problems: Chart Plot	10	70

* **SERVICE REQUIREMENT for Great Lakes and Inland** **46CFR 11.455**

* **SERVICE REQUIREMENT for Inland** **46CFR 11.457**

Endorsement - MATE /MASTER NMT 200 GROSS REGISTERED TONS		
Tonnage Group- MASTER NMT 100 GROSS REGISTERED TONS		
Route- GREAT LAKES AND INLAND OR INLAND		
Action- RENEWAL		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: Inland	30	90
Refresher Exercise	20	90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement - OPERATOR		
Tonnage Group- UNINSPECTED PASSENGER VESSEL		
Route- GREAT LAKES AND INLAND OR INLAND		
Action- ORIGINAL ISSUE		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: Inland	30	90
Navigation General	20	70
Deck Safety and Environmental Protection	60	70
Navigation Problems: Chart Plot	10	70

* **SERVICE REQUIREMENT for Great lakes & Inland**

46CFR 11.467

* **SERVICE REQUIREMENT for Inland**

46CFR 11.467

Endorsement - OPERATOR		
Tonnage Group- UNINSPECTED PASSENGER VESSEL		
Route- RESTRICTED		
Action- ORIGINAL		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inlands	50	80
Navigation General	10	70
Deck General, Safety & Environmental Protection	40	70

* **SERVICE REQUIREMENT**

46CFR 11.467

Endorsement -	OPERATOR	
Tonnage Group-	UNINSPECTED PASSENGER VESSEL	
Route-	GREAT LAKES & INLAND OR INLAND OR RESTRICTED	
Action-	RENEWAL	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: Inland	30
	Refresher Exercise	20

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement -	AUXILLIARY SAIL MASTER OR MATE	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	GREAT LAKES AND INLAND OR INLAND	
Action-	ENDORSEMENT	
	MODULES	NUMBER OF QUESTIONS
	Deck Safety and Rules of the Road	20
		70

* **SERVICE REQUIREMENT**

Masters and Mates with endorsements for vessels 200 GRT and under as follows:

Master NMT 200GRT Great Lakes and Inland or Inland

46CFR 11.452(b)

Master NMT 100GRT Great Lakes and Inland

46CFR 11.455(b)

Master NMT 100GRT Inland

46CFR 11.457(b)

Mate NMT 200GRT Great Lakes and Inland

46CFR 11.454(b)

Endorsement -	ASSISTANCE TOWING MASTER OR MATE	
Tonnage Group-	200 GROSS REGISTERED TONS OR LESS	
Route-	GREAT LAKES AND INLAND OR INLAND	
Action-	ENDORSEMENT	
	MODULES	NUMBER OF QUESTIONS
	Deck General	20
		70

* **SERVICE REQUIREMENT**

Specific time is not required

46CFR 11.482

4.5 River Routes

4.5.1 Information

- **River Routes**

IAW 46CFR10.107 the term RIVERS means a river, canal, or other similar body of water designated as such by the Coast Guard.

- **Western Rivers Routes**

IAW 46CFR10.107 the term Western Rivers means the Mississippi River, its tributaries, South Pass, and Southwest Pass, to the navigational demarcation lines dividing the high seas from harbors, rivers, and other inland waters of the United States, and the Port Allen-Morgan City Alternate Route, and that part of the Atchafalaya River above its junction with the Port Allen-Morgan City Alternate Route including the Old River and the Red River, and those waters specified in 33 CFR 89.25.

*From the COMDTINST M16000.8B
Marine Safety Manual Volume Three
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F. River Licenses.

The 46 CFR Part 10 final rule on licensing of maritime personnel created several river licenses. This section supplements the basic structure which the regulations contain on these licenses.

1. Routes.

River licenses can be issued with three route designations; Western Rivers, Rivers other than Western Rivers, and Rivers.

2. License Examinations.

There are three different examinations for rivers licenses; 1) Master's license authorizing service on vessels of more than 200 gross tons, including 500, 1600, and any gross tons; 2) Mate's license authorizing service on vessels of more than 200 gross tons, and; 3) Master or Mate on vessels of not more than 200 gross tons. Tonnage should be determined using the qualifying service.

a. All three examinations will utilize the 30 question Rules of the Road module. Because Alaskan and other rivers are governed by the COLREGS, applicants for a Rivers route or a Rivers other than a Western Rivers route who are examined with the Inland Rules of the Road module will have the standard COLREGS exclusion placed on their license.

b. Master and Mate examinations will each have a General module appropriate for the level. All other modules utilized will be existing or new generic modules.

c. Routes will be determined by which generic navigation modules are taken. Applicants for a Western Rivers route will take the Western Rivers navigation problems module. Applicants for a Rivers other than Western Rivers route will take the navigation problems module based on the Columbia River which is similar in scope to the Western Rivers module. Applicants for a Rivers route will be required to take both navigation modules.

4.5.2 Examination Index – River License Endorsements

- **Any Appropriate Tonnage**
 - Original Issue
 - Master AGT or NMT 500 or NMT 1600 GRT Rivers
 - Mate NMT 500 or NMT 1600 GRT River
 - Renewal
 - Master AGT or Master/Mate AGT or NMT 500 or NMT 1600 GRT Rivers
- **Limited Tonnage NMT 200 Gross Registered Tons (GRT)**
 - Original Issue or Raise in Grade
 - Master/Mate NMT 200 GRT Rivers
 - Renewal
 - Master/Mate NMT 200 GRT Rivers
- **Additional Endorsements Any Appropriate Tonnage (AAT)**
 - Master or Mate Auxiliary Sail Rivers
 - Master or Mate Assistance Towing Rivers

4.5.3 Examination Sheets – River License Endorsements

Endorsement -	MASTER	
Tonnage Group-	AGT OR NMT 500/1600 GRT	
Route-	RIVERS	
Action-	ORIGINAL ISSUE	
	MODULES	NUMBER OF QUESTIONS
		MINIMUM SCORE
	Rules of the Road: Inland	30
	Deck General, Deck Safety and Environmental Protection	70
	Navigation General	15
	Navigation Problems: Chart Plot	10
	Navigation General	15
	Navigation Problems: Chart Plot	10

- * **SERVICE REQUIREMENT for AGT** **46CFR 11.435/46CFR 11.459**
- * **SERVICE REQUIREMENT for NMT 1600 GRT** **46CFR 11.442/46CFR 11.459**
- * **SERVICE REQUIREMENT for NMT 500 GRT** **46CFR 11.446/46CFR 11.459**

Endorsement -	MATE	
Tonnage Group-	NMT 500/1600 GRT	
Route-	RIVERS	
Action-	ORIGINAL ISSUE	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: Inland	30
	Deck General, Deck Safety and Environmental Protection	60
	Navigation General	15
	Navigation Problems: Chart Plot	10
	Navigation General	15
	Navigation Problems: Chart Plot	10
		MINIMUM SCORE
		90
		70
		70
		90
		70
		90

* **SERVICE REQUIREMENT for NMT 500 GRT**

46CFR 11.448/46CFR 11.459

* **SERVICE REQUIREMENT for NMT 1600 GRT**

46CFR 11.444/46CFR 11.459

Endorsement -	MASTER OR MATE	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	RIVERS	
Action-	RENEWAL	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: Inland	30
	Refresher Exercise	30
		MINIMUM SCORE
		90
		90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement -	MASTER OR MATE	
Tonnage Group-	NMT 200 GROSS REGISTERED TONS	
Route-	RIVERS	
Action-	ORIGINAL ISSUE OR RAISE IN GRADE (from Mate 200 GRT Rivers)	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: Inland	30	90
Deck General, Deck Safety and Environmental Protection	70	70
Navigation General	15	70
Navigation Problems: Chart Plot	10	90

* **SERVICE REQUIREMENT for MASTER**

46CFR 11.452/46CFR 11.459

* **SERVICE REQUIREMENT for MATE**

46CFR 11.454/46CFR 11.459

Endorsement -	MASTER OR MATE	
Tonnage Group-	NMT 200 GROSS REGISTERED TONS	
Route-	RIVERS	
Action-	RENEWAL	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: Inland	30	90
Refresher Exercise	30	90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement -	AUXILLIARY SAIL MASTER OR MATE	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	RIVERS	
Action-	ENDORSEMENT	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Deck Safety and Rules of the Road	20	70

* **SERVICE REQUIREMENT**

Masters and Mates with endorsements for vessels 200 GRT and under as follows:

Master NMT 200GRT

46CFR 11.452(b)

Mate NMT 200GRT

46CFR 11.454(b)

Endorsement - Tonnage Group- Route- Action-	ASSISTANCE TOWING MASTER OR MATE 200 GROSS REGISTERED TONS OR LESS ANY ENDORSEMENT	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Deck General	20	70

* **SERVICE REQUIREMENT**

46CFR 11.482

Specific time is not required

4.6 First Class Pilots

4.6.1 Examination Index – First Class Pilot Endorsements

- Any Appropriate Tonnage
 - **Original Issue**
First Class Pilot
 - **Renewal**
First Class Pilot

4.6.2 Examination Sheet – First Class Pilot Endorsements

Endorsement - Tonnage Group- Route- Action-	FIRST CLASS PILOT NMT 1600 GROSS REGISTERED TONS ANY APPROPRIATE WATERS ORIGINAL ISSUE	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road:	30/50	90
Navigation General	20	70
Deck General, Deck Safety and Environmental Protection	60	70
Navigation Problems: Chart Plot	20	90
Local Knowledge	TBD	TBD
Chart Sketch	TBD	TBD

* **SERVICE REQUIREMENT**

46CFR 11.703

Is predicated upon the nature of the waters for which pilotage is desired

* **LICENSING NOTES**

46CFR11.703 Route Familiarization Requirements

46CFR11.707 Examination Requirements

Endorsement - FIRST CLASS PILOT Tonnage Group- ANY APPROPRIATE TONNAGE Route- ANY APPROPRIATE WATERS Action- RENEWAL		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road:	30	90
Refresher Exercise	30	90

* **SERVICE REQUIREMENT**

46CFR 10.227

* **LICENSING NOTES**

Exams are required only if applicant does not have the required sea service for renewal or does not have closely related shore side experience or has not taken an approved refresher course.

4.7 Uninspected Towing Vessels

4.7.1 Examination Index – Uninspected Towing Vessels

Towing Vessels (TV) Any Appropriate Tonnage

- **Raise in Grade**
Master TV Oceans
Master TV Near Coastal
Master TV Great Lakes and Inland
Master TV Western Rivers
- **Raise in Grade**
Mate Pilot TV Oceans
Mate Pilot TV Near Coastal
Mate Pilot TV Great Lakes and Inland
Mate Pilot TV Western Rivers
- **Original Issue**
Apprentice Mate Steersman TV Oceans
Apprentice Mate Steersman TV Near Coastal
Apprentice Mate Steersman TV Great Lakes and Inland
Apprentice Mate Steersman TV Western Rivers
- **Increase in Scope**
AMS/Mate Pilot/Master TV Oceans
AMS/Mate Pilot/Master TV Near Coastal
AMS/Mate Pilot/Master TV Great Lakes and Inland
AMS/Mate Pilot/Master TV Western Rivers
- **Renewal**
AMS/Mate Pilot/Master TV Oceans and Near Coastal
AMS/Mate Pilot/Master TV Great Lakes and Inland
AMS/Mate Pilot/Master TV Western Rivers

4.7.2 Examination Sheets – Uninspected Towing Vessels

Endorsement -	MASTER TOWING VESSEL	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	OCEANS	
Action-	RAISE IN GRADE (from Mate Pilot TV O)	
	MODULES	NUMBER OF QUESTIONS
No testing required		

* **SERVICE REQUIREMENT**

46CFR 11.464

Endorsement -	MASTER TOWING VESSEL	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	NEAR COASTAL	
Action-	RAISE IN GRADE (from Mate Pilot TV NC)	
	MODULES	NUMBER OF QUESTIONS
No testing required		

* **SERVICE REQUIREMENT**

46CFR 11.464

Endorsement -	MASTER TOWING VESSEL	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	GREAT LAKES AND INLAND	
Action-	RAISE IN GRADE (from Mate Pilot TV GL & I)	
	MODULES	NUMBER OF QUESTIONS
No testing required		

* **SERVICE REQUIREMENT**

46CFR 11.464

Endorsement -	MASTER TOWING VESSEL	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	WESTERN RIVERS	
Action-	RAISE IN GRADE (from Mate Pilot TV WR)	
	MODULES	NUMBER OF QUESTIONS
No testing required		

* **SERVICE REQUIREMENT**

46CFR 11.464

Endorsement - Tonnage Group- Route- Action-	MATE PILOT TOWING VESSEL ANY APPROPRIATE TONNAGE OCEANS RAISE IN GRADE (from Apprentice Mate O)	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
No testing required		

* **SERVICE REQUIREMENT**

46CFR 11.465

* **LICENSING NOTES**

An applicant who holds an endorsement as Master of Towing Vessels for Local Limited Areas must complete a full TOAR for the route requested and successfully completes the following exam modules:

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Navigation General	20	70
Deck General, Deck Safety and Environmental Protection	60	70
Navigation Problems: Chart Plot	20	90
Navigation Problems: Oceans	5	80

Endorsement - Tonnage Group- Route- Action-	MATE PILOT TOWING VESSEL ANY APPROPRIATE TONNAGE NEAR COASTAL RAISE IN GRADE (from Apprentice Mate NC)	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
No testing required		

* **SERVICE REQUIREMENT**

46CFR 11.465

* **LICENSING NOTES**

An applicant who holds an endorsement as Master of Towing Vessels for Local Limited Areas must complete a full TOAR for the route requested and successfully completes the following exam modules:

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	50	90
Navigation General	20	70
Deck General, Deck Safety and Environmental Protection	60	70
Navigation Problems: Chart Plot	20	90

Endorsement -	MATE PILOT TOWING VESSEL	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	GREAT LAKES AND INLAND	
Action-	RAISE IN GRADE (from Apprentice Mate GL & I)	
	MODULES	NUMBER OF QUESTIONS
	No testing required	
		MINIMUM SCORE

* **SERVICE REQUIREMENT**

46CFR 11.465

* **LICENSING NOTES**

An applicant who holds an endorsement as Master of Towing Vessels for Local Limited Areas must complete a full TOAR for the route requested and successfully completes the following exam modules:

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: Inland	30	90
Navigation General	20	70
Deck General, Deck Safety and Environmental Protection	60	70
Navigation Problems: Chart Plot	20	90

Endorsement -	MATE PILOT TOWING VESSEL	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	WESTERN RIVERS	
Action-	RAISE IN GRADE (from Apprentice Mate WR)	
	MODULES	NUMBER OF QUESTIONS
	No testing required	
		MINIMUM SCORE

* **SERVICE REQUIREMENT**

46CFR 11.465

* **LICENSING NOTES**

An applicant who holds an endorsement as Master of Towing Vessels for Local Limited Areas must complete a full TOAR for the route requested and successfully completes the following exam modules:

MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	30	90
Navigation General	15	70
Deck General, Deck Safety and Environmental Protection	60	70
Navigation Problems: Chart Plot	10	90

Endorsement - Tonnage Group- Route- Action-	APPRENTICE MATE STEERSMAN ANY APPROPRIATE TONNAGE OCEANS ORIGINAL ISSUE		
MODULES		NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland		50	90
Navigation General		20	70
Deck General, Deck Safety and Environmental Protection		60	70
Navigation Problems: Chart Plot		20	90
Navigation Problems: Oceans		5	80

* **SERVICE REQUIREMENT**

46CFR 11.466

Endorsement - Tonnage Group- Route- Action-	APPRENTICE MATE STEERSMAN ANY APPROPRIATE TONNAGE NEAR COASTAL ORIGINAL ISSUE		
MODULES		NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland		50	90
Navigation General		20	70
Deck General, Deck Safety and Environmental Protection		60	70
Navigation Problems: Chart Plot		20	90

* **SERVICE REQUIREMENT**

46CFR 11.466

Endorsement - Tonnage Group- Route- Action-	APPRENTICE MATE STEERSMAN ANY APPROPRIATE TONNAGE GREAT LAKES AND INLAND ORIGINAL ISSUE		
MODULES		NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: Inland		30	90
072X1 Navigation General		20	70
Deck General, Deck Safety and Environmental Protection		60	70
Navigation Problems: Chart Plot		20	90

* **SERVICE REQUIREMENT**

46CFR 11.466

Endorsement -	APPRENTICE MATE STEERSMAN	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	WESTERN RIVERS	
Action-	ORIGINAL ISSUE	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: Inland	30	90
Navigation General	15	70
Deck General, Deck Safety, and Environmental Protection	60	70
Navigation Problems: Chart Plot	10	90

* **SERVICE REQUIREMENT**

46CFR 11.466

Endorsement -	MASTER/MATE PILOT/AMS TOWING VESSELS	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	OCEANS	
Action-	INCREASE IN SCOPE (from NC)	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Navigation Problems: Oceans	5	80

* **SERVICE REQUIREMENT for Master & Mate Pilot**

46CFR 11.465

- 90 Days of service on the route desired
- Successful completion of any sections of the (TOAR) Towing Officer Assessment Record not previously completed.

* **SERVICE REQUIREMENT for AMS**

46CFR 11.466

After passing the above prescribed modules a restricted endorsement as Limited Apprentice Mate Steersman will be placed on your MMC. The restriction can be removed after obtaining Three Months of service on the route.

Endorsement -	MASTER/MATE PILOT/AMS TOWING VESSELS	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	NEAR COASTAL	
Action-	INCREASE IN SCOPE (from GL & I)	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Deck General, Deck Safety and Environmental Protection	60	70
Rules of the Road: International and Inland	50	90

* **SERVICE REQUIREMENT for Master & Mate Pilot** **46CFR 11.465**

- 90 Days of service on the route desired
- Successful completion of any sections of the (TOAR) Towing Officer Assessment Record not previously completed.

* **SERVICE REQUIREMENT for AMS** **46CFR 11.466**

After passing the above prescribed modules a restricted endorsement as Limited Apprentice Mate Steersman will be placed on your MMC. The restriction can be removed after obtaining Three Months of service on the route.

Endorsement -	MASTER/MATE PILOT/AMS TOWING VESSELS	
Tonnage Group-	ANY APPROPRIATE TONNAGE	
Route-	GREAT LAKES AND INLAND	
Action-	INCREASE IN SCOPE (from WR)	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Navigation General	20	70
Navigation Problems: Chart Plot	20	90

* **SERVICE REQUIREMENT for Master & Mate Pilot** **46CFR 11.465**

- 90 Days of service on the route desired
- Successful completion of any sections of the (TOAR) Towing Officer Assessment Record not previously completed.

* **SERVICE REQUIREMENT for AMS** **46CFR 11.466**

After passing the above prescribed modules a restricted endorsement as Limited Apprentice Mate Steersman will be placed on your MMC. The restriction can be removed after obtaining Three Months of service on the route.

Endorsement - MASTER/MATE PILOT/AMS TOWING VESSELS Tonnage Group- ANY APPROPRIATE TONNAGE Route- WESTERN RIVERS Action- INCREASE IN SCOPE (add Endorsement)		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Navigation General	15	70
Navigation Problems: Chart Plot	10	90

Endorsement - MASTER/MATE PILOT/AMS TOWING VESSELS Tonnage Group- ANY APPROPRIATE TONNAGE Route- OCEANS AND NEAR COASTAL Action- RENEWAL		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: International and Inland	30	90
Refresher Exercise	20	90

* **SERVICE REQUIREMENT**

46CFR 10.227

Endorsement - MASTER/MATE PILOT/AMS TOWING VESSELS Tonnage Group ANY APPROPRIATE TONNAGE Route- GREAT LAKES AND INLAND Action- RENEWAL		
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Rules of the Road: Inland	30	90
Refresher Exercise	20	90

* **SERVICE REQUIREMENT**

46CFR 10.227

	Endorsement - MASTER/MATE PILOT/AMS TOWING VESSELS Tonnage Group- ANY APPROPRIATE TONNAGE Route- WESTERN RIVERS Action- RENEWAL	
	MODULES	NUMBER OF QUESTIONS
	Rules of the Road: Inland	30
	Refresher Exercise	20
		MINIMUM SCORE
		90
		90

* **SERVICE REQUIREMENT**

46CFR 10.227

4.8 Mobile Offshore Drilling Units

4.8.1 Information

*IAW 46CFR10.107 the term **Mobile Offshore Drilling Unit (MODU)** means a vessel capable of engaging in drilling operations for the exploration for or exploitation of sub-sea resources. MODU designs include the following:*

Bottom bearing units, which include:

- *Self-elevating (or jack-up) units with moveable, bottom bearing legs capable of raising the hull above the surface of the sea; and*
- *Submersible units of ship-shape, barge-type, or novel hull design, other than a self-elevating unit, intended for operating while bottom bearing.*
- *Surface units with a ship-shape or barge-type displacement hull of single or multiple hull construction intended for operating in a floating condition, including semi-submersibles and drill ships.*

IAW 46CFR 11.468 Officer endorsements for service on mobile offshore drilling units (MODUs) authorize service on units of any gross tons upon ocean waters while on location or while underway, as restricted on the endorsement, except when moving independently under their own power.

4.8.2 Examination Index – Mobile Offshore Drilling Unit Endorsement

Offshore Installation Manager (OIM):

- **Original**

OIM: Unrestricted
OIM: Surface Units on Location
OIM: Surface Units Underway
OIM: Bottom Bearing Units on Location
OIM: Bottom Bearing Units Underway

- **Renewal**

Offshore Installation Manager

Barge Supervisor (BS):

- **Original**

Barge Supervisor

- **Renewal**

Barge Supervisor

Ballast Control Operator (BCO):

- **Original**

Ballast Control Operator

- **Renewal**

Ballast Control Operator

4.8.3 Examination Sheets– Mobile Offshore Drilling Unit Endorsement

Endorsement - Tonnage Group- Route- Action-	OFFSHORE INSTALLATION MANAGER MOBILE OFFSHORE DRILLING UNIT UNRESTRICTED ORIGINAL ISSUE		
	MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
	MODU Operations	50	70
	Deck General, Deck Safety and Environmental Protection	60	70

Endorsement - Tonnage Group- Route- Action-	OFFSHORE INSTALLATION MANAGER MOBILE OFFSHORE DRILLING UNIT SURFACE UNITS ON LOCATION ORIGINAL ISSUE		
	MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
	Surface Units on Location Operations	30	70
	Deck General, Deck Safety and Environmental Protection	60	70

Endorsement - Tonnage Group- Route- Action-	OFFSHORE INSTALLATION MANAGER MOBILE OFFSHORE DRILLING UNIT SURFACE UNITS UNDERWAY ORIGINAL ISSUE		
	MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
	Surface Units Underway Operations	30	70
	Deck General, Deck Safety and Environmental Protection	60	70

Endorsement - Tonnage Group- Route- Action-	OFFSHORE INSTALLATION MANAGER MOBILE OFFSHORE DRILLING UNIT BOTTOM BEARING UNITS ON LOCATION ORIGINAL ISSUE		
	MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
	Bottom Bearing Units on Location Operations	30	70
	Deck General, Deck Safety Environmental Protection	60	70

Endorsement - Tonnage Group- Route- Action-	OFFSHORE INSTALLATION MANAGER MOBILE OFFSHORE DRILLING UNIT BOTTOM BEARING UNITS UNDERWAY ORIGINAL ISSUE	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Bottom Bearing Units Underway Operations	30	70
Deck General, Deck Safety and Environmental Protection	60	70

* **SERVICE REQUIREMENT**

Various depending on the endorsements

46CFR11.470

Endorsement - Tonnage Group- Route- Action-	OFFSHORE INSTALLATION MANAGER MOBILE OFFSHORE DRILLING UNIT ALL RENEWAL	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Refresher Exercise	30	90

* **SERVICE REQUIREMENT**

46CFR10.227

Endorsement - Tonnage Group- Action-	BARGE SUPERVISOR MOBILE OFFSHORE DRILLING UNIT ORIGINAL ISSUE	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
MODU Operations	50	70
Deck General, Deck Safety and Environmental Protection	60	70

* **SERVICE REQUIREMENT**

46CFR11.472

Endorsement - Tonnage Group- Action-	BARGE SUPERVISOR MOBILE OFFSHORE DRILLING UNIT RENEWAL	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Refresher Exercise	30	90

* **SERVICE REQUIREMENT**

46CFR10.227

Endorsement - Tonnage Group- Action-	BALLAST CONTROL OPERATOR MOBILE OFFSHORE DRILLING UNIT ORIGINAL ISSUE	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
MODU Operations	50	70
Deck General, Deck Safety and Environmental Protection	60	70

* **SERVICE REQUIREMENT**

46CFR11.474

Endorsement - Tonnage Group- Action-	BALLAST CONTROL OPERATOR MOBILE OFFSHORE DRILLING UNIT RENEWAL	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Refresher Exercise	30	90

* **SERVICE REQUIREMENT**

46CFR10.227

4.9 Deck Rating Endorsements

4.9.1 Information

- **Lifeboatman** Regulations can be found in 46CFR 12.10
- **Able Seaman** regulations can be found in 46CFR 12.05

IAW 46CFR12.05-1(c) The following categories of able seaman are established:

- (1) Able Seaman—Any Waters, Unlimited.
- (2) Able Seaman—Limited.
- (3) Able Seaman—Special.
- (4) Able Seaman—Special (OSV).

IAW US Code Title 46/II Part E

- (1) 7311 Able Seaman-Sail
 - (2) 7311a Able Seaman- Fishing Industry
- **Tankerman** Regulations can be found in 46CFR 13.0

4.9.2 Examination Index – Deck Rating Endorsements

4.9.2.1 LIFEBOATMAN:

- **Original**
Lifeboatman: Unlimited
- **Renewal**
Lifeboatman: Unlimited
- **Original**
Lifeboatman: Limited
- **Renewal**
Lifeboatman: Limited

4.9.2.2 ABLE SEAMAN:

- **Original**
AB: Unlimited/Limited/Special/OSV Special/Fishing Industry
- **Renewal**
AB: Unlimited/Limited/Special/OSV Special/Fishing Industry
- **Original**
AB: Sail
- **Renewal**
AB: Sail
- **Practical Assessment**
Marlinespike Seamanship

4.9.2.3 TANKERMAN:

- **Renewal**
Tankerman: PIC or Engineer- Dangerous Liquids
Tankerman: PIC or Engineer- Liquefied Gas
Tankerman: PIC Barge Dangerous Liquids
Tankerman: PIC Barge Liquefied Gas
Tankerman: Assistant Dangerous Liquids
Tankerman: Assistant Liquefied Gas

4.9.3 Examination Sheet – Deck Rating Endorsements

Endorsement -	LIFEBOATMAN		
Tonnage Group-	UNLIMITED		
Route-	ANY WATERS		
Action-	ORIGINAL ISSUE		
MODULES		NUMBER OF QUESTIONS	MINIMUM SCORE
Deck Safety and Rules of the Road		70	70

* **SERVICE REQUIREMENT**

46CFR12.10-3

Endorsement -	LIFEBOATMAN		
Tonnage Group-	UNLIMITED		
Route-	ANY WATERS		
Action-	RENEWAL		
MODULES		NUMBER OF QUESTIONS	MINIMUM SCORE
Refresher Exercise		20	90

* **SERVICE REQUIREMENT**

46CFR10.227

Endorsement -	LIFEBOATMAN		
Tonnage Group-	LIMITED (Vessels not equipped with lifeboats)		
Route-	ANY WATERS		
Action-	ORIGINAL ISSUE		
MODULES		NUMBER OF QUESTIONS	MINIMUM SCORE
Survival Craft		50	70

Endorsement -	LIFEBOATMAN		
Tonnage Group-	LIMITED (Vessels not equipped with lifeboats)		
Route-	ANY WATERS		
Action-	RENEWAL		
MODULES		NUMBER OF QUESTIONS	MINIMUM SCORE
Refresher Exercise		20	90

* **SERVICE REQUIREMENT**

46CFR10.227

Endorsement - Tonnage Group- Route- Action-	ABLE SEAMAN UNLIMITED, LIMITED, SPECIAL SPECIAL OSV AND FISHING INDUSTRY ANY WATERS ORIGINAL ISSUE	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Deck General and Navigation General	50	70
Deck Safety and Rules of the Road	50	70

* **SERVICE REQUIREMENT**

**46CFR 12.05-7
US Code Title 46/II Part E 7311a**

Endorsement - Tonnage Group- Route- Action-	ABLE SEAMAN UNLIMITED, LIMITED, SPECIAL SPECIAL OSV AND FISHING INDUSTRY ANY WATERS RENEWAL	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Refresher Exercise	30	90

* **SERVICE REQUIREMENT**

46CFR10.227

Endorsement - Tonnage Group- Route- Action-	ABLE SEAMAN SAIL ANY WATERS ORIGINAL ISSUE	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Deck General and Navigation General	50	70
Deck Safety and Rules of the Road	50	70

* **SERVICE REQUIREMENT**

US Code Title 46/II Part E 7311

Endorsement - Tonnage Group- Route- Action-	ABLE SEAMAN SAIL ANY WATERS RENEWAL	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Refresher Exercise	30	90

* **SERVICE REQUIREMENT**

46CFR10.227

Endorsement - Tonnage Group- Route- Action-	ABLE SEAMAN UNLIMITED, LIMITED, SPECIAL, SPECIAL OSV ANY WATERS MARLINSPIKE SEAMANSHIP ASSESSMENT	
REQUIRED KNOT	NOTE	TIME LIMIT
One eye splice OR short splice, strands must be whipped	Required	15 Minutes
Bowline	Required	15 minutes for all 10
Square Knot	Required	15 minutes for all 10
Clove Hitch	Required	15 minutes for all 10
Sheet Bend	Required	15 minutes for all 10
Carrick Bend	May be one of six additional demonstrated	15 minutes for all 10
Rolling Hitch	May be one of six additional demonstrated	15 minutes for all 10
Stopper Hitch	May be one of six additional demonstrated	15 minutes for all 10
French Bowline	May be one of six additional demonstrated	15 minutes for all 10
Stage Hitch	May be one of six additional demonstrated	15 minutes for all 10
Running Bowline	May be one of six additional demonstrated	15 minutes for all 10
Bowline on a Bight	May be one of six additional demonstrated	15 minutes for all 10
Fisherman's Bend	May be one of six additional demonstrated	15 minutes for all 10
Timber hitch	May be one of six additional demonstrated	15 minutes for all 10
Catpaw	May be one of six additional demonstrated	15 minutes for all 10
Figure Eight	May be one of six additional demonstrated	15 minutes for all 10
Barrel Hitch	May be one of six additional demonstrated	15 minutes for all 10
Round Turn and Two Half Hitches	May be one of six additional demonstrated	15 minutes for all 10
Double Becket Bend	May be one of six additional demonstrated	15 minutes for all 10

*** REQUIREMENT**

46CFR 12.059(c)

All applicants for an Able Seaman Endorsement must demonstrate knowledge and ability to make principal knots, bends, splices and hitches.

A total of ten knots must be successfully demonstrated within a 15 minute time limit. Four are required, six additional knots must be chosen from the list.

Applicants must successfully demonstrate seven of the ten knots and successfully demonstrate the whipping to successfully demonstrate proficiency.

* **ASSESSMENT NOTES**

1. Spliced line may not be reused.
2. The demonstration must be completed at a USCG approved facility/school.
3. A standard format Letter of Proficiency may be accepted in lieu of the marlinspike seamanship demonstration:

**ABLE SEAMAN LETTER OF PROFICIENCY
IN MARLINESPIKE SEAMANSHIP ASSESSMENT**

Person Observing the Demonstration

1. Your assistance in administering the practical portion of the Able Seaman examination required under 46 CFR 12.05-9(c) is appreciated. Certification of the mariner's ability to demonstrate proficiency in performing the marlinspike skills listed in ESS 5-9 will enable the issuance of their Able Seaman's certification.
2. The demonstration of ability shall be witnessed by a designated examiner as part of an approved or accepted training course, a vessel Master or other officer licensed for service on vessels of over 200 gross registered tons, an appropriately trained Coast Guard Officer, or a responsible person authorized in writing by the Officer in Charge Marine Inspection.

To: Officer in Charge Marine Inspection (Regional Examination Center)

Subj: Certification of Performance of Practical Ability

This is to certify that I observed a successful demonstration of the applicant's proficiency, as indicated on the reverse, in the principal knots, bends, splices, and hitches in common use by:

Applicant's Name:

Mariner Reference Number:

CERTIFIED BY:

Name:

Mariner Number:

Title, Rank or Rate:

Vessel, Office or Course:

Signature:

Date:

Endorsement - Tonnage Group- Action-	TANKERMAN PIC OR TANKERMAN ENGINEER DANGEROUS LIQUIDS RENEWAL		
	MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
	Tankerman Dangerous Liquids	25	90

Endorsement - Tonnage Group- Action-	TANKERMAN PIC OR TANKERMAN ENGINEER LIQUEFIED GAS RENEWAL		
	MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
	Tankerman Liquefied Gas	25	90

Endorsement - Tonnage Group- Action-	TANKERMAN PIC BARGE DANGEROUS LIQUIDS RENEWAL		
	MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
	Tankerman Barge Dangerous Liquids	25	90

Endorsement - Tonnage Group- Action-	TANKERMAN PIC BARGE LIQUEFIED GAS RENEWAL		
	MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
	Tankerman Barge Liquefied Gas	25	90

Endorsement - Tonnage Group- Action-	TANKERMAN ASSISTANT DANGEROUS LIQUIDS RENEWAL		
	MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
	Tankerman Assistant Dangerous Liquids	25	90

Endorsement - Tonnage Group- Action-	TANKERMAN ASSISTANT LIQUEFIED GAS RENEWAL	
MODULES	NUMBER OF QUESTIONS	MINIMUM SCORE
Tankerman Assistant Liquefied Gas	25	90

* **SERVICE REQUIREMENT**

46CFR10.227/46CFR13.120

5. 46 CFR QUICK INDEX

The following contains parts 10 – 13.

5.1 46 CFR PART 10—MERCHANT MARINER CREDENTIAL

Subpart A—General

[§ 10.107 Definitions in subchapter B.](#)

[§ 10.109 Classification of endorsements.](#)

Subpart B—General Requirements for All Merchant Mariner Credentials

[§ 10.223 Modification or removal of limitations or scope.](#)

[§ 10.225 Requirements for original merchant mariner credentials.](#)

[§ 10.227 Requirements for renewal.](#)

[§ 10.231 Requirements for raises of grade or new endorsements.](#)

[§ 10.239 Quick reference table for MMC requirements.](#)

5.2 46 CFR PART 11—REQUIREMENTS FOR OFFICER ENDORSEMENTS

Subpart B—General Requirements for Officer Endorsements

[§ 11.201 Eligibility for officer endorsements and STCW endorsements, general.](#)

[§ 11.202 STCW endorsements.](#)

[§ 11.205 Requirements for original officer endorsements and STCW endorsements.](#)

[§ 11.211 Creditable service and equivalents for officer endorsements.](#)

[§ 11.213 Sea service as a member of the Armed Forces of the United States and on vessels owned by the United States as qualifying experience.](#)

[§ 11.217 Examination procedures and denial of officer endorsements.](#)

Subpart D—Professional Requirements for Deck Officers

See 11.401 – 11.497

Subpart E—Professional Requirements for Engineer Officer

§ 11.501 Grade and type of engineer endorsements issued.

§ 11.502 Additional requirements for engineer endorsements.

§ 11.503 Horsepower limitations.

§ 11.504 Application of deck service for limited engineer endorsements.

§ 11.505 Engineer officer structure.

§ 11.510 Service requirements for chief engineer of steam and/or motor vessels.

§ 11.512 Service requirements for first assistant engineer of steam and/or motor vessels.

§ 11.514 Service requirements for second assistant engineer of steam and/or motor vessels.

§ 11.516 Service requirements for third assistant engineer of steam and/or motor vessels.

§ 11.518 Service requirements for chief engineer (limited oceans) of steam and/or motor vessels.

§ 11.520 Service requirements for chief engineer (limited near coastal) of steam and/or motor vessels.

§ 11.522 Service requirements for assistant engineer (limited oceans)

§ 11.524 Service requirements for designated duty engineer of steam and/or motor vessels.

§ 11.530 Endorsements for engineers of uninspected fishing industry vessels.

§ 11.540 Endorsements for engineers of mobile offshore drilling units.

§ 11.542 Endorsement as chief engineer (MODU).

§ 11.544 Endorsement as assistant engineer (MODU).

§ 11.551 Endorsements for service on offshore supply vessels.

[§ 11.553 Chief Engineer \(OSV\).](#)

[§ 11.555 Engineer \(OSV\).](#)

Subpart G—Professional Requirements for Pilots

See 11.701-11.713

Subpart I—Subjects of Examinations and Practical Demonstrations of Competence

[§ 11.901 General provisions.](#)

[§ 11.903 Licenses requiring examinations.](#)

[§ 11.910 Subjects for deck officer endorsements.](#)

[§ 11.920 Subjects for MODU endorsements.](#)

[§ 11.950 Subjects for engineer endorsements.](#)

5.3 46 CFR PART 12—REQUIREMENTS FOR RATING ENDORSEMENTS:

Subpart 12.02—General Requirements for Certification

[§ 12.02-11 General provisions respecting rating endorsements.](#)

[§ 12.02-17 Examination procedures and denial of rating endorsements.](#)

Subpart 12.03—Approved and Accepted Training

[§ 12.03-1 Coast Guard-accepted training other than approved courses.](#)

Subpart 12.05—Able Seamen

[§ 12.05-7 Service or training requirements.](#)

[§ 12.05-9 Examination and demonstration of ability.](#)

Subpart 12.10—Lifeboatman

[§ 12.10-1 Credentials required.](#)

[§ 12.10-3 General requirements.](#)

[§ 12.10-5 Examination and demonstration of ability.](#)

[§ 12.10-7 General provisions respecting an MMC or MMD endorsed as lifeboatman.](#)

[§ 12.10-9 Endorsement for proficiency in fast rescue boats.](#)

Subpart 12.15—Qualified Member of the Engine Department

[§ 12.15-7 Service or training requirements.](#)

[§ 12.15-9 Examination requirements.](#)

[§ 12.15-11 General provisions respecting an endorsement as qualified member of the engine department.](#)

[§ 12.15-13 Deck engine mechanic.](#)

[§ 12.15-15 Engineman.](#)

5.4 46 CFR PART 13—CERTIFICATION OF TANKERMEN

Subpart A—General

[§ 13.101 Purpose.](#)

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[§ 13.105 Paperwork approval.](#)

[§ 13.106 Requirement to hold an MMC.](#)

[§ 13.107 Tankerman endorsement: General.](#)

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[§13.113-13.117 \[Reserved\]](#)

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[§ 13.123 Recency of service or experience for original tankerman endorsement.](#)

[§ 13.125 Physical and medical requirements.](#)

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[§ 13.201 Original application for “Tankerman-PIC” endorsement.](#)

[§ 13.203 Eligibility: Experience.](#)

[§ 13.205 Proof of service for “Tankerman-PIC” endorsement.](#)

[§ 13.207 Eligibility: Firefighting course.](#)

[§ 13.209 Eligibility: Cargo course.](#)

Subpart C—Requirements for “Tankerman-PIC (Barge)” Endorsement

[§ 13.301 Original application for “Tankerman-PIC \(Barge\)” endorsement.](#)

[§ 13.303 Eligibility: Experience.](#)

[§ 13.305 Proof of service for “Tankerman-PIC \(Barge\)” endorsement.](#)

[§ 13.307 Eligibility: Firefighting course.](#)

[§ 13.309 Eligibility: Cargo course.](#)

Subpart D—Requirements for “Tankerman-Assistant” Endorsement

[§ 13.401 Original application for “Tankerman-Assistant” endorsement.](#)

[§ 13.403 Eligibility: Experience.](#)

[§ 13.405 Proof of service for “Tankerman-Assistant” endorsement.](#)

[§ 13.407 Eligibility: Firefighting course.](#)

[§ 13.409 Eligibility: Cargo course.](#)

Subpart E—Requirements for “Tankerman-Engineer” Endorsement

[§ 13.501 Original application for “Tankerman-Engineer” endorsement.](#)

[§ 13.503 Eligibility: Experience.](#)

[§ 13.505 Proof of service for “Tankerman-Engineer” endorsement.](#)

[§ 13.507 Eligibility: Firefighting course.](#)

[§ 13.509 Eligibility: Cargo course.](#)