

U.S. Department
of Transportation

United States
Coast Guard



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NMC Policy Letter 02-02

11 January 2002

From: Commanding Officer, U.S. Coast Guard National Maritime Center
To: Distribution

Subj: ADMINISTRATION OF EXAMINATIONS FOR CERTAIN DECK AND ENGINE LICENSES SUBJECT TO THE INTERNATIONAL CONVENTION ON STANDARDS OF TRAINING, CERTIFICATION, AND WATCHKEEPING FOR SEAFARERS, 1978, AS AMENDED (STCW)

Ref: (a) Title 46, Code of Federal Regulations (46 CFR), Section 10.205(i)
(b) Title 46, Code of Federal Regulations (46 CFR), Section 10.910

1. **PURPOSE.** This policy letter provides guidance to the Regional Examination Centers about amending the format of the examinations it administers for certain deck and engine licenses in order to comply with the STCW. These changes will take effect on February 1, 2002.
2. **ACTION.** Commanding Officers of units with RECs shall be governed by the contents of this policy letter for the administration of merchant marine examinations. Commanding officers of units with marine safety responsibilities should bring this policy letter 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 policy letter will be distributed by electronic means only. It is available on the World Wide Web at <http://www.uscg.mil/STCW/m-policy.htm>.
3. **BACKGROUND.** The 1995 amendments to the STCW require that candidates for deck officers and engineering officers qualify for a certificate at the "operational level" and "management level". The former scheme of licensing examinations as part of the mariner qualifying process has been changed to reflect the implementation of STCW.
4. **DISCUSSION.** The structure of the new license exams will affect the following licenses and is specified in enclosures (1) through (8).

*For the latest information on STCW and Licensing,
visit our web site at <http://www.uscg.mil/nmc>*

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DECK

- a) Third Mate Any Gross Registered Tons Oceans & Near Coastal
- b) Second Mate Any Gross Registered Tons Oceans & Near Coastal
- c) Chief Mate Any Gross Registered Tons Oceans & Near Coastal
- d) Master Any Gross Registered Tons Oceans & Near Coastal
- e) Mate Not More Than 500/1600 Gross Registered Tons Oceans & Near Coastal
- f) Master Not More Than 500/1600 Gross Registered Tons Oceans & Near Coastal
- g) Mate Offshore Supply Vessels Oceans & Near Coastal
- h) Master Offshore Supply Vessels Oceans & Near Coastal

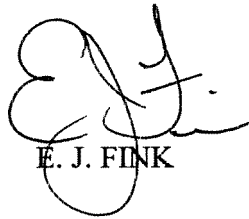
ENGINE

- a) Third Assistant Engineer Unlimited
- b) Second Assistant Engineer Unlimited
- c) First Assistant Engineer Unlimited
- d) Chief Engineer Unlimited

- a. In addition to the changes in the format of the exams specified in the enclosures to this letter, mariners who obtain licenses as Third Mate Any Gross Tons, Chief Mate Any Gross Tons, Third Assistant Engineer Unlimited, and First Assistant Engineer Unlimited by completing the revised examinations may upgrade to the next license level after they have acquired the required service without further examination. For example, a mariner who obtains a Third Mate Any Gross Tons license by completing the new examination discussed in enclosure (1) will not be tested when they upgrade to Second Mate Any Gross Tons.
- b. Mariners who have obtained licenses as Third Mate Any Gross Tons, Chief Mate Any Gross Tons, Third Assistant Engineer Unlimited, and First Assistant Engineer Unlimited under the old license examination scheme who are upgrading to a license for which the examination has been eliminated by the new license examination scheme will upgrade their license under the old license examination scheme. Until January 31, 2007, these mariners will be given the exam modules used under the old scheme. On or after January 31, 2007, the mariner will take the exam modules used under the new license examination scheme. For example, a mariner who obtained a Third Assistant Engineer license under the old scheme will be administered the former exam modules for Second Assistant Engineer until January 31, 2007. After that date, they will take the new Officer in Charge of an Engineering Watch exam described in enclosure (7).

Subj: ADMINISTRATION OF EXAMINATIONS FOR CERTAIN DECK AND ENGINE LICENSES SUBJECT TO THE INTERNATIONAL CONVENTION ON STANDARDS OF TRAINING, CERTIFICATION, AND WATCHKEEPING FOR SEAFARERS, 1978, AS AMENDED (STCW)

- c. Mariners who commence an examination cycle before February 1, 2002, will be permitted to complete one examination cycle under the prior examination scheme. If a mariner does not successfully complete the examination process within this one cycle, they will be re-examined under the new examination scheme set forth herein. An examination "cycle" consists of the complete original examination and permitted re-takes of failed modules.



E. J. FINK

- Enclosures: (1) Exam Structure Sheets Third Mate - OICNW Any GRT
(2) Exam Structure Sheets Chief Mate - OICNW Any GRT
(3) Exam Structure Sheets Mate - OICNW Not More Than 500/1600 GRT
(4) Exam Structure Sheets Master - Not More Than 500/1600 GRT
(5) Exam Structure Sheets Mate Offshore Supply Vessels
(6) Exam Structure Sheets Master Offshore Supply Vessels
(7) Exam Structure Sheets Third Assistant Engineer Unlimited
(8) Exam Structure Sheets First Assistant Engineer Unlimited

Distribution: Commandant (G-MSO)
Area Commanders (m)
All District Commanders (m)
All COs, MSOs
All Activity Commanders
All RECs

EXAM STRUCTURE SHEET NO. 1 - 1	License Type: License Group: License Action: License Condition:	THIRD MATE - OICNW ANY GROSS REGISTERED TONS ORIGINAL ISSUE OR RAISE IN GRADE OCEANS	EXAM CODE 14BR
NUMBER OF MODULES: Seven (7)		NUMBER OF QUESTIONS	MINIMUM SCORE
054XX - Rules of the Road		50	90
141XX - Deck General		70	70
142XX - Navigation General		70	70
143XX - Deck Safety & Environmental Protection		70	70
144XX - Navigation Problems - Chart Plotting (2)		15	90
145XX - Navigation Problems - Terrestrial		10	90
146XX - Navigation Problems - Celestial (3)		15	80

Notes:

- (1) Only applicants having completed an approved program of training for Officer in Charge of a Navigational Watch, or 3-years of approved sea service that includes training and assessment of skills in the above listed subjects may take this exam.
- (2) Applicants may miss two (2) of the fifteen (15) questions in module 144XX (Chart Plotting) and pass.
- (3) Applicants not able to successfully complete module 146XX (Celestial Navigation), are to be restricted to Great Lakes, inland or near coastal operations.
- (4) Applicants for an ocean or near coastal license must also pass a practical signaling examination (flashing light) in accordance with 46 CFR 10.401(h).

ENCLOSURE (1)

EXAM STRUCTURE SHEET NO. 1 - 2	License Type: License Group: License Action: License Condition:	THIRD MATE - OICNW ANY GROSS REGISTERED TONS ORIGINAL ISSUE OR RAISE IN GRADE NEAR COASTAL	EXAM CODE 14AR
NUMBER OF MODULES: Six (6)	NUMBER OF QUESTIONS	MINIMUM SCORE	
054XX – Rules of the Road	50	90	
141XX – Deck General	70	70	
142XX – Navigation General	70	70	
143XX – Deck Safety & Environmental Protection	70	70	
144XX – Navigation Problems – Chart Plotting (3)	15	90	
145XX – Navigation Problems – Terrestrial	10	90	

Notes:

- (1) Only applicants having completed an approved program of training for Officer in Charge of a Navigational Watch, or 3-years of approved sea service that includes training and assessment of skills in the above listed subjects may take this exam.
- (2) Applicants for an ocean or near coastal license must also pass a practical signaling examination (flashing light) in accordance with 46 CFR 10.401(h).
- (3) Applicants may miss two (2) of the fifteen (15) questions in module 144XX (Chart Plotting) and pass.

EXAM STRUCTURE SHEET NO. 1 – 7	License Type: License Group: License Action: License Condition:	CHIEF MATE ANY GROSS REGISTERED TONS RAISE IN GRADE OCEANS	EXAM CODE 15BR
NUMBER OF MODULES: Nine (9)		NUMBER OF QUESTIONS	MINIMUM SCORE
054XX – Rules of the Road		50	90
151XX – Deck General – Part A		50	70
152XX – Deck General – Part B		50	70
153XX – Navigation General		70	70
154XX – Deck Safety & Environmental Protection		70	70
155XX – Stability Problems		15	70
156XX – Navigation Problems – Chart plotting		10	90
157XX – Navigation Problems – Terrestrial		10	90
158XX – Navigation Problems – Celestial		15	80

Notes:

- (1) Each applicant for a Chief Mate Oceans license is to be administered the exam modules listed above.
- (2) Only applicants having completed an approved program of training and assessment of skills in the above listed subjects may take this exam.
- (3) Applicants for an ocean or near coastal license must also pass a practical signaling examination (flashing light) in accordance with 46 CFR 10.401(h).

ENCLOSURE (2)

EXAM STRUCTURE SHEET NO. 1 - 8	License Type: License Group: License Action: License Condition:	CHIEF MATE ANY GROSS REGISTERED TONS RAISE IN GRADE NEAR COASTAL	EXAM CODE 15BB
NUMBER OF MODULES: Eight (8)	NUMBER OF QUESTIONS	MINIMUM SCORE	
054XX – Rules of the Road	50	90	
151XX – Deck General – Part A	50	70	
152XX – Deck General – Part B	50	70	
153XX – Navigation General	70	70	
154XX – Deck Safety & Environmental Protection	70	70	
155XX – Stability Problems	15	70	
156XX – Navigation Problems – Chart plotting	10	90	
157XX – Navigation Problems – Terrestrial	10	90	

Notes:

- (1) Each applicant for a Chief Mate Near Coastal license is to be administered the exam modules listed above.
- (2) Only applicants having completed an approved program of training and assessment of skills in the above listed subjects may take this exam..
- (3) Applicants for an ocean or near coastal license must also pass a practical signaling examination (flashing light) in accordance with 46 CFR 10.401(h).

EXAM STRUCTURE SHEET NO. 2 -I	License Type: License Group: License Action: License Condition:	MATE - OICNW NOT MORE THAN 500/1600 GRT ORIGINAL ISSUE OR RAISE IN GRADE OCEANS	EXAM CODE 21DR
NUMBER OF MODULES: Seven (7)		NUMBER OF QUESTIONS	MINIMUM SCORE
054XX – Rules of the Road		50	90
211XX – Deck General (4)		70	70
212XX – Navigation General (4)		70	70
213XX – Deck Safety & Environmental Protection (4)		70	70
214XX – Navigation Problems – Chart Plotting (8)		15	90
215XX – Navigation Problems – Terrestrial (4)		10	90
216XX – Navigation Problems – Celestial (4)		15	80

Notes:

- (1) Applicants for this license are required to have qualified as Able Seaman per 46 CFR 10.401. See Exam Structure Sheets 5-1 and 5-3.
- (2) Only applicants having completed an approved program of training for Officer in Charge of a Navigational Watch, or 3-years of approved sea service that includes training and assessment of skills in the above listed subjects may take this exam.
- (3) An applicant who holds either a 500 GRT or a 1600 GRT license and STCW certification that were based on service that began on or after 1 August 1998 and wishes to apply for a third mate's license must acquire the sea service required by 46 CFR 10.402 and 10.407. No further testing or assessments are required.
- (4) Applicants holding a Mate, Oceans license authorizing service on vessels of not more than 500 gross registered tons issued before February 1, 2002 and increasing the tonnage limit of their license to 1600 GRT must take the 211XX, 212XX, 213XX, 215XX and 216XX modules. They must also take the Rules of the Road module if not successfully completed within the last year. They must meet the requirements in note (2).
- (5) Applicants who are unable or unwilling to provide the documentation in (2) above may have the scope of their license increased to authorize service on vessels of not more than 1600 gross registered tons restricted to service on the Great Lakes, inland waters and rivers without further examination.
- (6) Applicants raising the grade of their license from NMT 200 GRT for service on ocean routes must meet the requirements in notes (1) and (2) and pass the above modules.
- (7) Applicants for an ocean or near coastal license must also pass a practical signaling examination (flashing light) in accordance with STCW.
- (8) Applicants may miss two (2) of the fifteen (15) questions in module 214XX (Chart Plotting) and pass.

ENCLOSURE (3)

EXAM STRUCTURE SHEET NO. 2 – 2	License Type: License Group: License Action: License Condition:	MATE - OICNW NOT MORE THAN 500/1600 GRT ORIGINAL ISSUE OR RAISE IN GRADE NEAR COASTAL	EXAM CODE 21DF
NUMBER OF MODULES: Six (6)		NUMBER OF QUESTIONS	MINIMUM SCORE
054XX – Rules of the Road		50	90
211XX – Deck General (4)		70	70
212XX – Navigation General (4)		70	70
213XX – Deck Safety & Environmental Protection (4)		70	70
214XX – Navigation Problems – Chart Plotting (8)		15	90
215XX – Navigation Problems – Terrestrial (4)		10	90

Notes:

- (1) Applicants for this license are required to have qualified as Able Seaman per 46 CFR 10.401. See Exam Structure Sheets 5-1 and 5-3.
- (2) Only applicants having completed an approved program of training for Officer in Charge of a Navigational Watch, or 3-years of approved sea service that includes training and assessment of skills in the above listed subjects may take this exam.
- (3) An applicant who holds either a 500 GRT or a 1600 GRT license and STCW certification that were based on service that began on or after 1 August 1998 and wishes to apply for a third mate's license must acquire the sea service required by 46 CFR 10.402 and 10.407. No further testing or assessments are required.
- (4) Applicants holding a Mate, near coastal license authorizing service on vessels of not more than 500 gross registered tons issued before February 1, 2002 and increasing the tonnage limit of their license to 1600 GRT must take the 211XX, 212XX, 213XX, 215XX and 216XX modules. They must also take the Rules of the Road module if not successfully completed within the last year. They must meet the requirements in note (2).
- (5) Applicants who are unable or unwilling to provide the documentation in (2) above may have the scope of their license increased to authorize service on vessels of not more than 1600 gross registered tons restricted to service on the Great Lakes, inland waters and rivers without further examination.
- (6) Applicants raising the grade of their license from NMT 200 GRT for service on near coastal routes must meet the requirements in notes (1) and (2) and pass the above modules.
- (7) Applicants for an ocean or near coastal license must also pass a practical signaling examination (flashing light) in accordance with STCW.
- (8) Applicants may miss two (2) of the fifteen (15) questions in module 214XX (Chart Plotting) and pass.

EXAM STRUCTURE SHEET NO. 2 – 5	License Type: License Group: License Action: License Condition:	MASTER NOT MORE THAN 500/1600 GRT ORIGINAL ISSUE OR RAISE IN GRADE OCEANS	EXAM CODE 20BR
NUMBER OF MODULES: Seven (7)		NUMBER OF QUESTIONS	MINIMUM SCORE
054XX – Rules of the Road		50	90
201XX – Deck General (8)		50	70
202XX – Navigation General		50	70
203XX – Deck Safety & Environmental Protection (8)		50	70
204XX – Navigation Problems – Chart Plotting		10	90
205XX – Navigation Problems – Terrestrial (8)		10	90
206XX – Navigation Problems – Celestial (8)		15	80

Notes:

- (1) Applicants for this license are required to have qualified as Able Seaman per 46 CFR 10.401. See Exam Structure Sheets 5-1 and 5-3.
- (2) This exam applies to those who began the service or training for the Master Oceans 500/1600 GRT license on or after August 1, 1998. After February 1, 2002 it applies to all applicants.
- (3) Applicants must complete required training and skill assessments.
- (4) Applicants holding a Master, Oceans license authorizing service on vessels of not more than 500 gross registered tons issued after February 1, 2002 may have the scope of their license increased to authorize service on vessels of not more than 1,600 gross registered tons based on sea service alone. No further examination is required.
- (5) Applicants holding a Master, oceans license authorizing service on vessels of not more than 500 gross registered tons issued before February 1, 2002 and increasing the scope in tonnage of their license to 1600 GRT must take this exam.
- (6) Applicants who are unable or unwilling to provide the documentation in (3) above may have the scope of their license increased to authorize service on vessels of not more than 1600 gross registered tons restricted to service on the Great Lakes, Inland waters and Rivers without further examination.
- (7) Applicants for an ocean or near coastal license must also pass a practical signaling examination (flashing light) in accordance with STCW.
- (8) Applicants raising grade from Master of Towing Vessels should be administered an examination consisting of 201XX, 203XX, 205XX and 206XX modules.

ENCLOSURE (4)

EXAM STRUCTURE SHEET NO. 2 – 6	License Type: License Group: License Action: License Condition:	MASTER NOT MORE THAN 500/1600 GRT ORIGINAL ISSUE OR RAISE IN GRADE NEAR COASTAL	EXAM CODE 20DN
NUMBER OF MODULES: Six (6)		NUMBER OF QUESTIONS	MINIMUM SCORE
054XX – Rules of the Road		50	90
201XX – Deck General		50	70
202XX – Navigation General		50	70
203XX – Deck Safety & Environmental Protection		50	70
204XX – Navigation Problems – Chart Plotting		10	90
205XX – Navigation Problems – Terrestrial		10	90

Notes:

- (1) Applicants for this license are required to have qualified as Able Seaman per 46 CFR 10.401. See Exam Structure Sheets 5-1 and 5-3.
- (2) This exam applies to those who began the service or training for the Master Near Coastal 500/1600 GRT license on or after August 1, 1998. After February 1, 2002 it applies to all applicants.
- (3) Applicants must complete required training and skill assessments.
- (4) Applicants holding a Master, Near Coastal license authorizing service on vessels of not more than 500 gross registered tons issued after February 1, 2002 may have the scope of their license increased to authorize service on vessels of not more than 1,600 gross registered tons based on sea service alone. No further examination is required.
- (5) Applicants holding a Master, near coastal license authorizing service on vessels of not more than 500 gross registered tons issued before February 1, 2002 and increasing the scope in tonnage of their license to 1600 GRT must take this exam.
- (6) Applicants who are unable or unwilling to provide the documentation in (3) above may have the scope of their license increased to authorize service on vessels of not more than 1600 gross registered tons restricted to service on the Great Lakes, Inland waters and Rivers without further examination.
- (7) Applicants for an ocean or near coastal license must also pass a practical signaling examination (flashing light) in accordance with STCW.

EXAM STRUCTURE SHEET NO. 3 – 68	License Type: License Group: License Action: License Condition:	MATE OFFSHORE SUPPLY VESSELS ORIGINAL ISSUE OCEANS	EXAM CODE 21OV
NUMBER OF MODULES: Six (6)		NUMBER OF QUESTIONS	MINIMUM SCORE
054XX – Rules of the Road		50	90
171XX – Deck General, Safety & Environmental Protection		50	70
172XX – Navigation General		60	70
174XX – Navigation Problems – Chart Plotting (3)		15	90
175XX – Navigation Problems – Terrestrial		10	90
176XX – Navigation Problems – Celestial		15	80

Notes:

- (1) All applicants for Mate of Offshore Supply Vessels – Oceans must complete training and assessment of skills required by STCW prior to being administered the written examination.
- (2) An applicant not having completed an approved Proficiency in Survival Craft Course, must successfully complete the 441XX Survival Craft module in addition to Basic Safety Training to be issued an STCW95 certificate endorsed “Limited to service on vessels not equipped with lifeboats”.
- (3) Applicants may miss two (2) of the fifteen (15) questions in module 174XX (Chart Plotting) and pass.

EXAM STRUCTURE SHEET NO. 3 – 69	License Type: License Group: License Action: License Condition:	MATE OFFSHORE SUPPLY VESSELS ORIGINAL ISSUE NEAR COASTAL (DOMESTIC TRADE)	EXAM CODE 21SV
NUMBER OF MODULES: Five (5)		NUMBER OF QUESTIONS	MINIMUM SCORE
054XX – Rules of the Road		50	90
191XX – Deck General, Safety & Environmental Protection		50	70
192XX – Navigation General		60	70
194XX – Navigation Problems – Chart Plotting (3)		15	90
195XX – Navigation Problems – Terrestrial		10	90

Notes:

- (1) All applicants for a Mate of Offshore Supply Vessels – Near Coastal (Domestic Trade) license must complete training and assessment of skills required by STCW prior to being administered the written examination.
- (2) An applicant not having completed an approved Proficiency in Survival Craft Course, must successfully complete the 441XX Survival Craft module in addition to Basic Safety Training to be issued an STCW95 certificate endorsed “Limited to service on vessels not equipped with lifeboats”.
- (3) Applicants may miss two (2) of the fifteen (15) questions in module 194XX (Chart Plotting) and pass.

ENCLOSURE (5)

EXAM STRUCTURE SHEET NO. 3 – 70	License Type: License Group: License Action: License Condition:	MASTER OFFSHORE SUPPLY VESSELS RAISE IN GRADE OCEANS	EXAM CODE 200V
NUMBER OF MODULES: Six (6)		NUMBER OF QUESTIONS	MINIMUM SCORE
054XX – Rules of the Road		50	90
161XX – Deck General, Safety & Environmental Protection		60	70
162XX – Navigation General		60	70
164XX – Navigation Problems – Chart Plotting		10	90
165XX – Navigation Problems – Terrestrial		10	90
166XX – Navigation Problems – Celestial		15	80

Notes:

- (1) All applicants for Master of Offshore Supply Vessels – Oceans must complete training and assessment of skills required by STCW prior to being administered the written examination.
- (2) An applicant not having completed an approved Proficiency in Survival Craft Course, must successfully complete the 441XX Survival Craft module in addition to Basic Safety Training to be issued an STCW95 certificate endorsed “Limited to service on vessels not equipped with lifeboats”.

EXAM STRUCTURE SHEET NO. 3 – 71	License Type: License Group: License Action: License Condition:	MASTER OFFSHORE SUPPLY VESSELS RAISE IN GRADE NEAR COASTAL (DOMESTIC TRADE)	EXAM CODE 20SV
NUMBER OF MODULES: Five (5)		NUMBER OF QUESTIONS	MINIMUM SCORE
054XX – Rules of the Road		50	90
181XX – Deck General, Safety & Environmental Protection		60	70
182XX – Navigation General		60	70
184XX – Navigation Problems – Chart Plotting		10	90
185XX – Navigation Problems – Terrestrial		10	90

Notes:

- (1) All applicants for Master of Offshore Supply Vessels – Near Coastal (Domestic Trade) must complete training and assessment of skills required by STCW prior to being administered the written examination.
- (2) An applicant not having completed an approved Proficiency in Survival Craft Course, must successfully complete the 441XX Survival Craft module in addition to Basic Safety Training to be issued an STCW95 certificate endorsed “Limited to service on vessels not equipped with lifeboats”.

EXAMINATION STRUCTURE SHEET NO. 1-1	License Type- License Group- License Action- License Condition-	THIRD ASSISTANT ENGINEER UNLIMITED ORIGINAL MOTOR	EXAM CODE 53CO
NO. OF MODULES: Five (5) MODULE PRESENTATION ORDER	NUMBER OF QUESTIONS	MINIMUM SCORE	
531--, Motor Plants, Part I	70	70	
532--, Motor Plants, Part II	70	70	
534--, Engineering Safety & Environmental Protection	70	70	
535--, General Subjects	70	70	
536--, Electricity	70	70	

EXAMINATION STRUCTURE SHEET NO. 1-2	License Type - License Group- License Action- License Condition-	THIRD ASSISTANT ENGINEER UNLIMITED ORIGINAL STEAM	EXAM CODE 53BO
NO. OF MODULES: Five (5) MODULE PRESENTATION ORDER:	NUMBER OF QUESTIONS	MINIMUM SCORE	
534--, Engineering Safety & Environmental Protection	70	70	
535--, General Subjects	70	70	
536--, Electricity	70	70	
537--, Steam Plants, Part I	70	70	
538--, Steam Plants, Part II	70	70	

EXAMINATION
STRUCTURE
SHEET
NO. 1-3

License Type - **THIRD ASSISTANT ENGINEER**
License Group- **UNLIMITED**
License Action - **ORIGINAL**
License Condition - **STEAM AND MOTOR**

EXAM CODE
53AO

NO. OF MODULES: Seven (7) MODULE PRESENTATION ORDER:	NUMBER OF QUESTIONS	MINIMUM SCORE
531--, Motor Plants, Part I	70	70
532--, Motor Plants, Part II	70	70
534--, Engineering Safety & Environmental Protection	70	70
535--, General Subjects	70	70
536--, Electricity	70	70
537--, Steam Plants, Part I	70	70
538--, Steam Plants, Part II	70	70

EXAMINATION
STRUCTURE
SHEET
NO. 1-9

License Type - **FIRST ASSISTANT ENGINEER**
License Group- **UNLIMITED**
License Action - **RAISE IN GRADE**
License Condition - **MOTOR**

EXAM CODE
51MM

NO. OF MODULES: Three (3) MODULE PRESENTATION ORDER:	NUMBER OF QUESTIONS	MINIMUM SCORE
541--, Engineering Management, Part I	70	70
542--, Engineering Management, Part II	70	70
543--, Engineering Management, Part III (Motor)	70	70

EXAMINATION
STRUCTURE
SHEET
NO. 1-10

License Type - **FIRST ASSISTANT ENGINEER**
License Group- **UNLIMITED**
License Action - **RAISE IN GRADE**
License Condition - **STEAM**

EXAM CODE
51MS

NO. OF MODULES: Three (3) MODULE PRESENTATION ORDER	NUMBER OF QUESTIONS	MINIMUM SCORE
541--, Engineering Management, Part I	70	70
542--, Engineering Management, Part II	70	70
544--, Engineering Management, Part III (Steam)	70	70

EXAMINATION
STRUCTURE
SHEET
NO. 1-11

License Type - **FIRST ASSISTANT ENGINEER**
License Group- **UNLIMITED**
License Action - **RAISE IN GRADE**
License Condition - **STEAM AND MOTOR**

EXAM CODE
51MB

NO. OF MODULES: Three (3) MODULE PRESENTATION ORDER:	NUMBER OF QUESTIONS	MINIMUM SCORE
541--, Engineering Management, Part I	70	70
542--, Engineering Management, Part II	70	70
543--, Engineering Management, Part III (Motor)	70	70
544--, Engineering Management, Part III (Steam)	70	70