



ပြည်ထောင်စုသမ္မတ မြန်မာနိုင်ငံတော် အစိုးရ
 ပို့ဆောင်ရေးဝန်ကြီးဌာန
 ရေကြောင်းပို့ဆောင်ရေးညွှန်ကြားမှုဦးစီးဌာန

အမိန့်ကြော်ငြာစာအမှတ် ၅ / ၂၀၁၄

၁၃၇၆ ခုနှစ်၊ ပြာသိုလဆန်း ၁၀ ရက်
 (၂၀၁၄ ခုနှစ်၊ ဒီဇင်ဘာလ ၃၀ ရက်)

ရေယာဉ်မှူးများ၊ ရေကြောင်းအရာရှိများနှင့် ရေကြောင်းအင်ဂျင်နီယာအရာရှိများ၏ ကျွမ်းကျင်မှု လက်မှတ်များအတွက် လေ့ကျင့်သင်ကြားခြင်းနှင့် စာမေးပွဲစစ်ဆေးခြင်းဆိုင်ရာ လမ်းညွှန်ချက်များကို ဖြည့်စွက်သတ်မှတ်ခြင်း

၁။ ရေကြောင်းပို့ဆောင်ရေးညွှန်ကြားမှုဦးစီးဌာနသည် မြန်မာနိုင်ငံကုန်သည်သင်္ဘောအက်ဥပဒေ ပုဒ်မ ၂၉၄၊ ပုဒ်မခွဲ(ခ)နှင့် ရေယာဉ်မှူး၊ အရာရှိများနှင့် သင်္ဘောသားများ၏ ကျွမ်းကျင်မှုနှင့် တတ်ကျွမ်းမှုလက်မှတ်များ ထုတ်ပေးခြင်းဆိုင်ရာ နည်းဥပဒေများ၏ အခန်း (၄)ပါ ပြဋ္ဌာန်းချက်များ အရ အပ်နှင်းထားသော လုပ်ပိုင်ခွင့်ကို ကျင့်သုံး၍ ဤအမိန့်ကြော်ငြာစာကို ထုတ်ပြန်လိုက်သည်။

၂။ ရေယာဉ်မှူးများ၊ ရေကြောင်းအရာရှိများနှင့် ရေကြောင်းအင်ဂျင်နီယာ အရာရှိများ၏ အောက်ပါ ကျွမ်းကျင်မှုလက်မှတ်များအတွက် လေ့ကျင့်သင်ကြားခြင်းနှင့် စာမေးပွဲစစ်ဆေးခြင်း ဆိုင်ရာ လမ်းညွှန်ချက်များကို International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW), 1978 as amended including 2010 Manila Amendments နှင့်အညီ ထုတ်ပြန်ထားသည့် အမိန့်ကြော်ငြာစာအမှတ် (၁/၂၀၁၄) ၏ နောက်ဆက်တွဲများတွင် ဖော်ပြထားသည့် နောက်ဆက်တွဲများအား ဖြည့်စွက် သတ်မှတ်လိုက်သည် -

- (က) ကုန်းပတ်အရာရှိ အဆင့် ၂ (အပြည်ပြည်ဆိုင်ရာသွား တန်ချိန် ၃၀၀၀ အောက်) ကျွမ်းကျင်မှု လက်မှတ် (Deck Officer Class II Certificate of Competency, under 3000 Unliimted Voyage) အတွက် လေ့ကျင့်သင်ကြားခြင်းနှင့် စာမေးပွဲစစ်ဆေးခြင်းဆိုင်ရာ လမ်းညွှန်ချက်များ - ANNEX (L)
- (ခ) ရေဒီယိုဆက်သွယ်ရေးအရာရှိ ကျွမ်းကျင်မှုလက်မှတ် (GMDSS Radio Operator Certificate of Comtetency) အတွက် လေ့ကျင့်သင်ကြားခြင်းနှင့် စာမေးပွဲစစ်ဆေးခြင်း ဆိုင်ရာ လမ်းညွှန်ချက်များ - ANNEX (M)
- (ဂ) Bridiging Course for Existing 2nd Engineers who have failed in MOT 1st Class Part-B Old system examination ဆိုင်ရာလမ်းညွှန်ချက်များ - ANNEX (N)

(ဃ) Bridiging Course for Existing OEW who have failed in MOT 2nd Class Part-B Old system examination ဆိုင်ရာလမ်းညွှန်ချက်များ - ANNEX (O)

(c) Bridiging Course for Existing Junior Engineer who have failed in OEW Old system examination ဆိုင်ရာလမ်းညွှန်ချက်များ - ANNEX (P)

(ပုံ)မောင်မောင်ဦး
ညွှန်ကြားရေးမှူးချုပ်
ရေကြောင်းပို့ဆောင်ရေးညွှန်ကြားမှုဦးစီးဌာန
ပို့ဆောင်ရေးဝန်ကြီးဌာန

စာအမှတ်၊ အမိန့်ကြော်ငြာစာ/ရညန/ ၈၂၇
ရက်စွဲ၊ ၂၀၁၄ ခုနှစ်၊ ဒီဇင်ဘာလ ၃၀ ရက်

ဖြန့်ဝေခြင်း

မြန်မာနိုင်ငံရေကြောင်းပညာတက္ကသိုလ်
မြန်မာနိုင်ငံ ကုန်သွယ်ရေးကြောင်းကောလိပ်
ရေကြောင်းဘက်ဆိုင်ရာ သင်တန်းဌာနများ

ဦးဆောင်ညွှန်ကြားရေးမှူး } မြန်မာနိုင်ငံ ပြန်တမ်းအပိုင်း (၁)တွင် ထည့်သွင်း ကြေငြာ
ပုံနှိပ်ရေးနှင့် စာအုပ်ထုတ်ဝေရေးလုပ်ငန်း } ပေးပါရန် မေတ္တာရပ်ခံချက်ဖြင့် ပေးပို့ပါသည်။

မိတ္တူကို-

ပို့ဆောင်ရေးဝန်ကြီးဌာန

ANNEX (L)

Guidance of Maritime Education, Training and Examination for Deck Officer Class II (Chief Mate on a seagoing ship of between 500 and 3,000 gross tonnag, Unlimited Voyage) Certificate of Competency. (STCW Convention 1978, as amended, Regulation II/2*)

The Examination for certification of **Deck Officer Class II** (Chief Mate on a seagoing ship of between 500 and 3,000 gross tonnage, unlimited voyage) consists of **Oral only**.

1. Every candidate for certification shall have approved seagoing service of not less than 12 months as an officer in charge of a navigational watch on ships of 500 gross tonnage or more while holding Deck Officer Class III Certificate of Competency.
2. The candidates who have successfully completed the approved Upgrading Course, as required by the standard of competence specified in section A-II/2 of the STCW Code for masters and chief mate on ships of between 500 and 3,000 gross tonnage, shall continue the Deck Officer Class II Oral Examination which shall be conducted by the Department of Marine Administration (DMA).
4. The Department of Marine Administration shall issue the Deck Officer Class II Certificate of Competency for Chief Mate on a seagoing ship of between 500 and 3,000 gross tonnage to the candidates who have successfully completed the Oral Examination as well as holding the respective valid Certificates of Proficiency which are required by the STCW Convention Regulations and the Code.

SUMMARY OF TEACHING HOURS FOR DECK OFFICER CLASS II CERTIFICATE OF COMPETENCY COURSE (II/2*)

No.	Subjects	Examination	Teaching hours	Total weeks
1.	Navigation/Voyage planning / Routeing /	Assessment	13	22.5 Hours/ Week
2.	Cargo Handling & Stowage	Assessment	34	
3.	Ship Construction & Stability	Assessment	11.5	
4.	Maritime Legislative Requirements	Assessment	21.5	
5.	Controlling the operation of ship and care for persons on board / Emergencies	Assessment	10	
Total Teaching Hours			90	4 - Weeks

**Guidance of Maritime Education, Training and Examination for
GMDSS Radio Operator Certificate of Competency.
(STCW Convention 1978, as amended, Regulation IV/2)**

The Examination for certification of Radio Personnel complied with STCW Regulation IV/2 requirement consists of practical training, theory lectures and assessment of Written and Practical examinations.

1. Every candidate for certification shall:
 - (A) hold the at least Deck Officer Class III or Class IV or Class V certificate
or
hold the existing PMG 2nd. Class Certificate issued by The Post and Telecommunication Department.
 - (B) have completed General Operator's Certificate course for 2 weeks conducted in approved training centres with continuous assessment system for the following Radio subjects:
 - (1) Objective Test
 - (2) Subjective Test
 - (3) Practical Examination
 - (C) have to continue the assessment Written Examination conducted by Training Centre for the following subjects in practical:
 - (1) VHF DSC
 - (2) MF/HF DSC
 - (3) INMARSAT C
 - (4) INMARSAT FLEET 77

That Written Examination shall be administered, supervised and monitored by the Department of Marine Administration.

2. The candidates, who have successfully completed assessment in Practical Examination, shall have to sit the Written Examination conducted by the Department of Marine Administration.
3. The Department of Marine Administration shall issue General Operator's certificate to the candidates who have successfully completed the Examination as well as holding the respective valid Certificates of competency which are required by the STCW Convention Regulations and STCW Codes.

**SUMMARY OF TEACHING HOURS FOR
RADIO SUBJECTS**

No.	Subjects	Teaching hours	Total weeks
	<u>Theory</u>		
1.	GMDSS	1	
2.	SHIP'S ANTENNAS/PROPOGATION	2	
3.	POWER SUPPLY/ TEST	1	
4.	REGULATIONS	1	
5.	VHF TRAFFIC PROCEDURE	1	
6.	MF HF TRAFFIC PROCEDURE	1	
7.	DISTRESS SIGNAL/ TRAFFIC	2	
8.	URGENCY/SYSTEMSAFETY TRAFFIC	2	
9.	SAR EXERCISE (MODEL)	1	
10.	DSC SYSTEM DESCRIPTION	2	
11.	SAR PROCEDURE IN GMDSS	1	
12.	INMARSAT SYSTEM ESCRIPTION	2	
13.	NAVTEXSYSTEM DESCRIPTION	1	
14.	RADIOTELEX SYSTEM DESCRIPTION	1	
15.	EPIRB/SART SYSTEM DESCRIPTION	1	
16.	MARITIME MOBILE CHGARGES	1	
17.	THEORETICAL	2	
18.	GENERAL AIS/SSAS	1	

No.	Subjects	Teaching hours	Total weeks
	<u>PRACTICAL</u>		
1.	VHF DSC & RT PRACTICAL OPERATION	1	
2.	MF/HF DSC, RT & NBDP PRACTICAL OPERATION	3	
3.	PUBLICATION IMO/ITU/ALRS	1	
4.	SAR ECERCISE(DIFF SCENARIO	2	
5.	DSC PRACTICAL OPERATION VHF, MF/HF FOR URGENCY AND SAFETY CALL	4	
6.	SAR PROCEDURE IN GMDSS	1	
7.	INMARSAT B OPERATION	3	
8.	INMARSAT C OPERATION	2	
9.	INMARSAT FLEET 77 OPERATION	2	
10.	NAVTEX PRACTICAL OPERATION	1	
11.	LIVE EQUIPMENT PRACTICAL OPERATION	4	
12.	EPIRB/SART PRACTICAL OPERATION	1	
13.	MARITIME MOBILE CHGARGES	2	
14.	GENERAL AIS/SSAS	1	
15.	PRACTICAL TEST	6	
16.	THEORICAL TEST	2	
		36	
TOTAL		60 HRS	2 WEEK

**MODE AND MARKING SYSTEM FOR
ASSESSMENT EXAMINATION
THEORIETICAL EXAMINATION FOR GLOBAL MARITIME DISTRESS & SAFETY SYSTEM
GOC CERTIFICATE**

No.	Subject	Mode of Examination	Duration of Examination	Maximum marks	Pass marks
1.	Objective Paper	Written	75 Minutes	60	40
2.	Subjective Paper	Written	15 Minutes	40	30
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5. Practical Examination system for Global Maritime Distress & Safety System
(GOC Certificate)

No.	Subjects	Mode of Examination	Given marks	Passed Marks
1.	GMDSS Equipments	Practical	100	70

**Guidance of Maritime Education, Training and Examination for
MEO Class I (Chief Engineer Officer on ships powered by main propulsion
machinery of 3,000kW propulsion power or more)
Certificate of Competency.
(STCW Convention 1978 as amended, Regulation III/2)**

***(Bridging Course for Existing 2nd Engineers who have failed in MOT 1st Class
Part-B old system examination)***

MEO Class I Bridging course for existing 2nd Engineers, who have failed in past MOT 1st Class Part-B old system examinations, consists of practical training, theory lectures, Written and Oral examinations.

1. Every candidate for certification shall:
 - (A) hold the 2nd Engineer Officer certificate of competency issued by the Department of Marine Administration.
 - (B) have failed or comparted in past MOT 1st Class part- B old system examination conducted by the Department of Marine Administration.
 - (C) have completed the MEO Class I Bridging Course for 2 months conducted in an approved training centres with continuous assessment system and course completion assessment examinations for the following **Marine Engineering Technology** subjects:
 - (1) Marine Engineering Knowledge (General)
 - (2) Marine Engineering Knowledge (Motor)
 - (3) Marine Electro Technology
 - (4) Naval Architecture and Ship Construction

Assessment Examinations shall be administered, supervised and monitored by the Department of Marine Administration.

2. The candidates, who have successfully completed the MEO Class I Bridging course, shall have to continue the Written Examination conducted by Board of Examination for the subjects failed in past MOT 1st Class Part- B old system examinations and if he had failed in past MOT 1st Class Part-B Oral old system examination have to re sit Chief Engineer Officer Oral Examination held by the Department of Marine Administration.
3. The candidates shall successfully completed the following Training Courses after passing the Chief Engineer Officer Oral Examination:
 - (A) Design Feature of High Voltage Installation Course; and
 - (B) Vessel Resources Management (VRM) Course.
4. The Department of Marine Administration shall issue Marine Engineer Officer Class I Certificate of Competency to the candidates who have successfully completed the Oral Examination as well as holding the respective valid Certificates of Proficiency which are required by the STCW Convention Regulations and Codes.

**SUMMARY OF TEACHING HOURS FOR
MARINE ENGINEERING TECHNOLOGY SUBJECTS**

No.	Subjects	Examination	Teaching hours	Total weeks
1.	Marine Engineering Knowledge (General)	BoE Written Exam	84.5	
2.	Marine Engineering Knowledge (Motor)	BoE Written Exam	36.5	
3.	Marine Electro Technology	BoE Written Exam	141.5	
4.	Naval Architecture and Ship Construction	BoE Written Exam	7	
Total			9 weeks	2 months

**MODE AND MARKING SYSTEM FOR
MARINE ENGINEER OFFICER CLASS I CoC EXAMINATION**

No.	Subject	Mode of Examination	Duration of Examination	Maximum marks	Pass marks
1.	Marine Engineering Knowledge (General)	BoE Written	3 Hours	100	50
2.	Marine Engineering Knowledge (Motor)	BoE Written	3 Hours	100	50
3.	Marine Electro Technology	BoE Written	3 Hours	100	50
4.	Naval Architecture and Ship Construction	BoE Written	3Hours	100	50

5. Oral Examination system for Marine Engineering Technology subjects

No.	Subjects	Mode of Examination	Given marks	Passed marks
1.	Marine Engineering Technology Subjects	Oral	100	90

**Guidance of Maritime Education, Training and Examination for
MEO Class II (Second Engineer Officer on ships powered by main propulsion
machinery of 3,000kW propulsion power or more)
Certificate of Competency.
(STCW Convention 1978 as amended, Regulation III/2)**

***(Bridging Course for Existing OEW who have failed in MOT 2nd Class Part – B
old system examination)***

MEO Class II Bridging course for existing OEW, who have failed in past MOT 2nd Class Part - B old system examinations, consists of practical training, theory lectures and Written & Oral examinations.

1. Every candidate for certification shall:
 - (A) hold the Officer In charge of an Engineering Watch certificate of competency issued by the Department of Marine Administration.
 - (B) have failed or comparted in past MOT 2nd class part-B old system examination conducted by the Department of Marine Administration.
 - (C) have completed the MEO Class II Bridging Course for 4 months conducted in an approved training centres with continuous assessment system and course completion assessment examinations for the following **Marine Engineering Technology** and **Marine Engineering Sciences** subjects:
 - (1) Marine Engineering Knowledge (General)
 - (2) Marine Engineering Knowledge (Motor)
 - (3) Marine Electro Technology
 - (4) Naval Architecture and Ship Construction
 - (5) Thermodynamic and Heat Transmission
 - (6) Mechanics and Hydromechanics

Assessment Examinations shall be administered, supervised and monitored by the Department of Marine Administration.

2. The candidates, who have successfully completed the MEO Class II Bridging course, shall have to continue the Written Examination conducted by Board of Examination for the Marine Engineering Technology subjects failed in past MOT 2nd Class Part - B old system examinations and if he had failed in past MOT 2nd Class Part - B old system Oral examination have to re sit 2nd Engineer Officer Oral Examination held by the Department of Marine Administration.
3. The candidates shall successfully completed the following Training Courses after passing the Oral Examination:
 - (A) Design Feature of High Voltage Installation Course; and
 - (B) Vessel Resources Management (VRM) Course.
4. The Department of Marine Administration shall issue Marine Engineer Officer Class II Certificate of Competency to the candidates who have successfully completed the Oral Examination as well as holding the respective valid Certificates of Proficiency which are required by the STCW Convention Regulations and Codes.

**SUMMARY OF TEACHING HOURS FOR
MARINE ENGINEERING TECHNOLOGY SUBJECTS**

(A) Marine Engineering Technology subjects

No.	Subjects	Examination	Teaching hours	Total weeks
1.	Marine Engineering Knowledge (General)	BoE Written Exam	69	
2.	Marine Engineering Knowledge (Motor)	BoE Written Exam	43	
3.	Marine Electro Technology	BoE Written Exam	180	
4.	Naval Architecture and Ship Construction	BoE Written Exam	47	
Total weeks			11.3	2.6 months

(B) Engineering Sciences subjects

No.	Subjects	Examination	Teaching hours	Total weeks
1.	Thermodynamics and Heat Transmission	Training Centre's Written Exam	90	
2.	Mechanics and Hydrodynamics	Training Centre's Written Exam	90	
Total weeks			6	1.4 months

**MODE AND MARKING SYSTEM FOR
MARINE ENGINEER OFFICER CLASS II CoC EXAMINATION**

(A) Marine Engineering Technology Subjects

No.	Subject	Mode of Examination	Duration of Examination	Maximum marks	Pass marks
1.	Marine Engineering Knowledge (General)	BoE Written	3 Hours	100	50
2.	Marine Engineering Knowledge (Motor)	BoE Written	3 Hours	100	50
3.	Marine Electro Technology	BoE Written	3 Hours	100	50
4.	Naval Architecture and Ship Construction	BoE Written	3 Hours	100	50

(B) Marine Engineering Sciences Subjects

No.	Subject	Mode of Examination	Duration of Examination	Maximum marks	Pass marks
1.	Thermodynamics and Heat Transmission	Training Centre's Written	3 Hours	100	50
2.	Mechanics and Hydrodynamics	Training Centre's Written	3 Hours	100	50

(C) Oral Examination system for Marine Engineering Technology Subjects

No.	Subjects	Mode of Examination	Given marks	Passed marks
1.	Marine Engineering Technology Subjects	Oral	100	90

**Guidance of Maritime Education, Training and Examination for
MEO Class III (Officer In charge of an Engineering Watch on ships powered
by main propulsion machinery of 3,000kW propulsion power or more)
Certificate of Competency.
(STCW Convention 1978 as amended , Regulation III/1)**

***(Bridging Course for Existing Junior Engineer who have failed in OEW
old system examination)***

MEO Class III Bridging course for existing Junior Engineers, who have failed in past OEW old system examinations, consists of practical training, theory lectures, Written and Oral examinations.

1. Every candidate for certification shall:
 - (A) hold the Junior Engineer Fit certificate issued by the Department of Marine Administration.
 - (B) have failed or comparted in past OEW old system examination conducted by the Department of Marine Administration.
 - (C) have completed the MEO Class III Bridging Course for 3 months conducted in an approved training centres with continuous assessment system and course completion assessment examinations for the following **Marine Engineering Technology** subjects:
 - (1) Marine Engineering Knowledge (General)
 - (2) Marine Engineering Knowledge (Motor)
 - (3) Marine Electro Technology
 - (4) Naval Architecture and Ship Construction

Assessment Examinations shall be administered, supervised and monitored by the Department of Marine Administration.

2. The candidates, who have successfully completed the MEO Class III Bridging course, shall have to continue the Written Examination conducted by Board of Examination for the Marine Engineering Technology subjects failed in past OEW old system examinations and if he had failed in past OEW old system Oral examination have to re sit OEW Oral Examination held by the Department of Marine Administration.
3. The candidates shall successfully completed the following Training Courses after passing the Oral Examination:
 - (A) Operational Principles of High Voltage Installation Course; and
 - (B) Engine Room Resources Management (ERM) Course.
4. The Department of Marine Administration shall issue OEW Certificate of Competency to the candidates who have successfully completed the Oral Examination as well as holding the respective valid Certificates of Proficiency which are required by the STCW Convention Regulations and Codes.

**SUMMARY OF TEACHING HOURS FOR
MARINE ENGINEERING TECHNOLOGY AND ENGINEERING SCIENCES
SUBJECTS**

No.	Subjects	Examination	Teaching hours	Total weeks
1.	Marine Engineering Knowledge (General)	BoE Written Exam	130	
2.	Marine Engineering Knowledge (Motor)	BoE Written Exam	12	
3.	Marine Electro Technology	BoE Written Exam	148.5	
4.	Naval Architecture and Ship Construction	BoE Written Exam	77.5	
5.	Industrial Chemistry	BoE Written Exam	16.5	
Total			384.5 weeks	3 months

**MODE AND MARKING SYSTEM FOR
MARINE ENGINEER OFFICER CLASS III CoC EXAMINATION**

No.	Subject	Mode of Examination	Duration of Examination	Maximum marks	Pass marks
1.	Marine Engineering Knowledge (General)	BoE Written	3 Hours	100	50
2.	Marine Engineering Knowledge (Motor)	BoE Written	3 Hours	100	50
3.	Marine Electro Technology	BoE Written	3 Hours	100	50
4.	Naval Architecture and Ship Construction	BoE Written	3 Hours	100	50

**ORAL EXAMINATION SYSTEM FOR
MARINE ENGINEERING TECHNOLOGY SUBJECTS**

No.	Subjects	Mode of Examination	Given marks	Passed marks
1.	Marine Engineering Technology Subjects	Oral	100	90