

Republic of the Philippines OFFICE OF THE PRESIDENT COMMISSION ON HIGHER EDUCATION

CHED MEMORANDUM ORDER (CMO)

No.: 27

SUBJECT:

GUIDELINES FOR THE IMPLEMENTATION OF THE BACHELOR OF SCIENCE IN MARINE TRANSPORTATION (BSMT) PROGRAM FOR MARINE RADIO OFFICERS (MROS)

In accordance with the pertinent provisions of Republic Act (RA) No. 7722 otherwise known as the "Higher Education Act of 1994," and by virtue of Resolution No. 014-99 of the Commission en banc dated 15 February 1999, the following guidelines for the implementation of the Bachelor of Science in Marine Transportation (BSMT) program for Marine Radio Officers (MROs) are hereby adorted and promilated by the Commission.

AUTHORIZATION

The BSMT program for MROs shall be operated by maritime institutions complying with STGW '95 and CHED requirements which were submitted by CHED to IMO which opt to offer the program. However, maritime institutions that have substancially complied with STCW '95 requirements and CHED in the succeeding CHED assessment desiring to offer the program may apply to the CHED Central Office through the CHED Regional Offices (CHEDROs) concerned.

CURRICULUM

The enclosed BSMT program for Marine Radio Officers (MROs) shall be adopted as the minimum requirement for the completion of the BSMT program for MROs, provided, that the existing syllabi under the new/revised BSMT curriculum for each particular subject are met.

Maritime institutions offering this BSMT program for MROs shall evaluate the support of the properties student's credential on general education and other subjects. A system of equivalency shall be established by the school. Similarity in content, depth and breadth of subjects shall be the main basis for determining equivalencies.

ROTC is a mandatory subject for graduation. However students may request for exemptions on an individual basis.

SHIPBOARD TRAINING

After the completion of this special BSMT program, the students shall undergo a supervised shipboard training for six months and shall complete the training record book. However, MROs that have successfully completed the "fast track course" and provided evidence that they are competent to carry out the task listed in the CHED approved training record book for deck cadets, may be exempted from further shipboard training.

ADMISSION

This program is basically intended for those who have finished two years of post secondary schooling. Necessary adjustments will have to be made if the school wishes to offer a program for those who have taken a one year radio operators program. The prospective student must have a minimum of three years experience on board ship as a marine radio office.

TUITION FEE

Martitime institutions offering said BSMT program for MRO shall determine their tution fee schedule. CHED Memorandum Order No. 13, s. 1988 (Guidelines on the Procedure to be Followed by HEIs intending to Increase their Tutilon Fees Effective Beginning SY 1993-1999) shall be waived for this program offering.

EFFECTIVITY

THIS CIVIC STIGHT LANCE STICKS		
Pasig City, Philippines,	October 8, 1999	

STER A. GARCIA Chairperson

Republic of the Philippines OFFICE OF THE PRESIDENT COMMISSION ON HIGHER EDUCATION

THE BACHELOR OF SCIENCE IN MARINE TRANSPORTATION (BSMT) PROGRAM FOR MARINE RADIO OFFICERS (MROs)

BACKGROUND:

Upon the request of the United Filipino Seafurers (UTSS), United Filipino Mentine Radio Officers Association (UNIFILIARTOA) and the Philipino Seamere's Association (PSA), the Office of Programs and Standards (OPS) of the CIED, with representation the Marilime Training Council (MTC), Professional Repetiations Commission (MTC) and Marilime Industry Authority (MARINA) held two meetings on November 3 and 9 1,998, to lear the proteins of the members of the associations and explore solutions to assist the current crop of Marine Radio Officers (MRCs) who will be displaced by February of 1999, due to the implementation of the GMDSS per Standards of Training, Certification and Watchkeeping (STCW) 95 requirements.

All the November 3 meeting, there was a consensus that MROs cannot be automatically aborted in any existing manifiles plotsprofession. If was the spation of the group that since the closest related jot to that of the radio operators is that of the dock officer at the operational level, a solution to their problem would be for them to purette the Bachelor of Science in Marine Transportation (BSMT) course to qualify for said position.

Thus, a Technical Working Group was created composed of lifece presentalities each from UNIFILIAMTOA, PSA and a representative each from MRINA, PRC, NTC, and the CHED. The Technical Working Group would study the possibility of accrediffing subjects taken by the radio operators in their persons schooling intrough the Expanded Tertlary Education, Equivalency and Accreditation Program (ETEEAP). It would also study the proposal that lites shipboard experience and faining altended be accredited through the same program, and that the one-year Shipboard Cadelship required in the BSMT curriculum the shortened to 6 months of watchbeening.

During the 2nd meeting held on November 9, the General Radio Operalors Certificate (GROC) was matched with the BSMT curriculum. Results of the matching showed that the radio operators would have to take 19 professional subjects and 12 general education subjects as follows:

1" semester/1" year

 Credits
 Subjects

 4 units
 Terrestrial Navigation 1

 3 units
 Ships & Ship Routines

3 units Basic Computer Operation (for individual evaluation and may be considered in ETEEAP)

Physics 1 (for inclividual evaluation and may be considered in ETEEAP)

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and the second second	
2 nd semester/1 st year	
<u>Credits</u>	Subjects Plane and Spherical Trigonometry
5 units	Ship Construction & Ship Stability
3 units	
4 units	Physics II Watchkeeping, Deck Officers Chapter VIII (for
2 units	individual evaluation and may be considered in
	ETEEAP)
3 units	Cargo Handling & Stowage Terrestrial Navigation 2
4 units	Terrestrial Navigation 2
1st semester/2nd year	•
Credits	Subjects
4 units	Celestial Navigation 1
3 units	Solid Mensuration
4 units	Collision Regulations, Deck Officers
3 units	Marine Vocabulary & Terms (for individual
o umo	evaluation and may be considered in ETEEAP)
-ml 4 - tond	·
2 nd semester/2 nd year	Subjects
Credits 4 unils	Coloctial Navigation 2
	Morchant Ship Search & Rescue (for Individual
3 units	evaluation and may be considered in ETEEAP)
	Electronic Navigation (Radar)
3 units	Ship Handling and Maneuvering
3 units	Meteorology & Oceanography
2 units	Meteorology & Oceanography
1 st semester/3 rd year	
Credits	Subjects
. 3 units	Filipino 1 (for individual evaluation and may be
	considered in ETEEAP)
5 units	Electronic Navigation (ARPA)
3 units	Marine Power Plant General Psychology w/ Alcohol & Drug
3 units	
	Prevention (for individual evaluation and may be
	considered in ETEEAP)
3 units	World Geography (for individual evaluation and
	may be considered in ETEEAP)
4 units	Stability and Trim
2 nd semester/3 ^{nl} year	
Credits	Subjects
3 units	Filipino 2 (for individual evaluation and may be
3 tillits	considered in ETEEAP)
3 units	Personnel Management
3 units	Emergency Procedures incl. Advanced
3 unus	Girofichting & Comp. in Survival Crafts (for
	individual evaluation and may be considered in
	ETIEAP)

ETEEAP)

Prem 3 units a ledi i 3 units

3 units

Life and Works of Rizal (for individual evaluation and may be considered in ETEEAP)

Maritime Law

Maritime Pollution and Prevention (for Individual evaluation and may be considered ETEEAP)

To fast track the completion of the BSMT course by the MROs a combination of formal schooling, ETEEAP and distance education will be adopted. Taking into consideration the number of units to be taken, a radio operator will spend a minimum of 5 months to finish the course if these will be offered on a 10 hours of classes a day. Monday to Sunday basis.

However, the time to complete the BSMT will depend upon the previous academic records and performance of the student.

This scheme was presented to the Technical Panel for Maritime Education (TPME) which recommended an alternative program because of the following observations on the TWG proposal:

The TWGF study considered credit units of each subject5 not the number of hours required for each subject per semester.

Total hours computed 18 weeks per semester.

- Subjects on Watchkeeping, Deck Officers Chapter VIII (3 units) and Marine Pollution Prevention (3 units) considered under ETEEAP. 3 However, the contents of the subjects are not included in the Radio
- Distance learning was recommended, but this is not yet appropriate at this time, as packaged and structured program has to be developed and tested before implementation.

The TPME alternative proposals on the BSMT program for MROs are the following:

BSMT COURSE REQUIREMENTS

The following are the required professional subjects for the MRO to finish 1.1 the BSMT course:

		TEC 1	"LAB"	UNIT	TOTAL	
١	REQUIRED SUBJECTS				HRS.	
ì	The second of the Party of the	3 " "	3	4	108	
ļ	Terrestrial Navigation 1 Poulines	2	3	3	90 90	
	Ships and Ship Routines Plane and Spherical Trigonometry	5	0	5	90	l
	Ship Construction and Stability	2	3		108	ı
	F Division II	3	3	4	54	١
	6. Watchkeeping-Deck Officers	2	. 0	۲ ا		۱
	Chan VIII			3	54	١
	7 Cargo Handling and Stowage	3		4	108	١
	8 Terrestrial Navigation 2		1- 3.	4	108	ı
	9. Celestial Navigation 1	3		3	54	١
	To Calid Managration	3	L			

[17.78]				1
REQUIRED SUBJECTS	LEC	LAB	UNIT	TOTAL
1 - May				HRS.
11.Colision Regulations	3	3	4	108
12. Meteorology and Oceanography	2	0	2	36
13. Celestial Navigation 2	3	3	4	108
14. Electronic Navigation (Radar)	2	3	3	90
15. Ship Handling and Maneuvering	3	0	3	54
16. Electronic Navigation (ARPA)	3	9	6	216
17. Marine Power Plant	3	0	3	54
18. Stability and Trim	3	0	3	54
19. Personnel Management	3	0	3	54
20. Emergency Procedures, incl.	2	3	3	90
Advanced Firefighting & Comp. in	1			1
Survival Crafts	1		l	
21. Maritime Law	3	0	3	54
22. Marine Pollution	3	0	3	54
TOTAL	63	39	76	1836

- SHORE-BASED EDUCATION AND TRAINING Based on the above Professional and Allied subjects, the period required to complete the BSMT curriculum assuming that the general education subjects will be credited through ETEEAP, on the basis of various study loads per week, are as follows:
 - MONDAYS TO SUNDAYS (10 hours/day) = 70 hrs/wk
 Period to complete curriculum = 1836 hrs/70 hrs/wk = 26.3 wks

The above arrangement is not favorable to learning/skill process. The load is just too much even for a young and intelligent individual.

- b) MONDAYS TO SATURDAYS (8 hours/day) = 48 hrs/wk
 Period to complete curriculum = 1836/48 hrs/wk = 38.25 wks
- c) MONDAYS TO FRIDAYS (8 hours/day) = 40 hrs/wk
- Period to complete curriculum = 1836 hrs/40 hrs/wk = 46 wks
- d) MONDAYS TO FRIDAYS (6 hours/day) = 30 hrs/wk Period to complete curriculum = 1836 hrs/30 hrs/wk = 61.2 wks
- SHIPBOARD TRAINING The new curriculum provides for at least one year supervised seagoing service which include not less than six months bridge watchkeeping duties under the supervision of the Master or a qualified officer. The seagoing service should be documented in an approved training record book (ISF TRB).

R.A. 8544 otherwise known as "The Merchant Marine Office's Law of 1997 requires one year of supervised shipboard training with a least six months of bridge watchkeeping duties. The proposal to reduce the Radio Officer's shipboard training to 8 months bridge watchkeeping drittes only, considering their sengoing experience, was not approved by the PRC/Board of Examiners for bock Officers.

RECOMMENDATIONS:

- Prospective trainee must first pass evaluation of subjects that may be considered in the ETEFAP
- Each term shall be of 20 weeks duration with contact period of at least 48 hours a week (lecture and laboratory). Allocale separate time for assessment/evaluation of trainees. Number of enrollees per class would depend upon the school, taking into consideration viability. Proposed minimum number of profilees is 24.
- Student must salisfactorily pass subject area (module) assessment before, he is Example: Navigation 1 before proceeding to Navigation 2; Watchkeeping 1 before Watchkeeping 2
- Appropriate units credited for the subject separately indicated in the trainees' transcript of records to conform to the requirements of the BSMT curriculum.
- Adopt the existing syllabi under the regular BSMT curriculum; subject.

Their special fast tract BSMT course shall be offered only in schools to be selected by CHED.

Noted by:

REYNALDO T. PEÑA Director IV, Office of Programs and Standards