

## フィリピンの船員養成機関

### LISTINGS OF MARITIME SCHOOLS

School	Year Established	BSMT (DECK)	BSME (ENGINE)	Basic Seaman Course	BSNAME
1. Phil. Merchant Marine Academy, METRO MANILA	1820	*	*		
2. Iloilo Maritime Academy ILOILO CITY	1947	*	*		
3. NAMEI Polytechnic Inst. METRO MANILA	1947		*		*
4. PMI Colleges METRO MANILA	1955	*	*	*	
5. Phil. Merchant Marine School METRO MANILA	1958	*	*		
6. Don Bosco Youth Center METRO MANILA	1971			*	
7. Phil. Coast Guard Training Center CAVITE CITY	1971			*	
8. Cebu Central Colleges CEBU CITY	1973	*	*		*
9. Visayan Maritime Academy BACOLOD CITY	1974	*	*		
10. Cagayan Capitol Colleges CAGAYAN DE ORO	1974	*	*	*	
11. Western Institute of Technology ILOILO CITY	1975		*		
12. University of the Visayas CEBU CITY	1975	*	*		
13. Associated Marine Officers and Seaman's Union of the Philippines METRO MANILA	1975			*	

School	Year Established	BSMT (DECK)	BSME (ENGINE)	Basic Seaman Course	BSNAME
14. Misamis Institute of Technology MISAMIS CITY	1975	*	*	*	*
15. PMI Colleges TAGBILARN CITY	1975	*	*		
16. Doña Josefa Edralin Marcos Foundation SAN CARLOS CITY PANGASINAN	1976			*	
17. Palompon Institute of Technology PALOMPON, LEYTE	1976	*	*	*	
18. St. Joseph Institutue of Technology BUTUAN CITY	1976			*	
19. Southern Luzon Technical School DARAGA, ALBAY	1977			*	
20. Cebu Polytechnic School CEBU CITY	1977	*			
21. Cebu Technical Institute CEBU CITY	1977			*	
22. Concord Technical Institute CEBU CITY	1977	*			
23. Feati University METRO MANILA	1977	*	*		
24. Golden Gate Colleges BATANGAS CITY	1977		*		
25. Iloilo Maritime Academy BACOLOD CITY	1977	*	*		
26. Iligan Capitol Colleges ILIGAN CITY	1977	*			

School	Year Established	BSMT (DECK)	BSME (ENGINE)	Basic Seaman Course	BSNAME
27. International Maritime and Technical School DAGUPAN CITY	1977			*	
28. Lyceum of Batangas BATANGAS CITY	1977	*	*	*	
29. Mariners Polytechnic Colleges NAGA CITY	1977	*	*	*	*
30. Mindanao Aeronautical School DAVAO CITY	1977	*	*	*	*
31. Zamboanga School of Arts and Trade ZAMBOANGA CITY	1977		*	*	
32. Agro-Industrial Foundation DAVAO CITY	1977	*	*	*	
33. Mandaue Technical Institute CEBU CITY	1978				
34. Davao Vocational School DAVAO CITY	1978		*		
35. Pangasinan Maritime Academy DAGUPAN CITY	1978	*	*		
36. Technological Institute of the Philippines METRO MANILA	1978		*		
37. University of Iloilo ILOILO CITY	1978		*		
38. Dr. Yangas Francisco Balagtas BOCAUE, BULACAN	1978			*	
39. Danao Vocational School DNAO CITY, CEBU	1978		*		
40. Mindanao School of Fisheries ZAMBOANGA CITY	1979	*			

School	Year Established	BSMT (DECK)	BSME (ENGINE)	Basic Seaman Course	BSNAME
41. Northern Phil. Maritime and Technical Institute SAN FERNANDO, LA UNION	1979			*	
42. Technological University of the Philippines METRO MANILA	1979		*		
43. Bataan Heroes College BALANGA, BATTAN	1979	*	*		
44. Iloilo State College of Fisheries BAROTAK, ILOILO CITY	1979	*			
45. FAMOUS Vocational School MANDALUYONG, METRO MANILA	1980			*	
46. Artistic Vocational School OLONGAPO CITY	1980		*	*	
47. Mindanao Polytechnic Institute GEN. SANTOS, COTABATO	1980	*	*	*	
48. MATS College of Technology PUERTO PRINCESA, PALAWAN	1981	*	*		*
49. Ramon Magsaysay Memorial College GEN. SANTOS, COTABATO	1981		*		

FOUR YEAR NAUTICAL CURRICULUM LEADING TO  
BACHELOR OF SCIENCE IN MARINE  
TRANSPORTATION

(BSMT)

First Year  
(First Semester)

<u>S U B J E C T S</u>	<u>Lecture</u> <u>Hours</u>	<u>Laboratory</u> <u>Hours</u>	<u>Hours</u> <u>Week</u>	<u>Units</u>
NAUT 101-N - Navigation 1	5	0	5	5
NAUT 101-N - Seamanship 1	3	2	5	4
NAUT 101-SB- Ship Business 1	2	0	2	2
ENG 101 - Grammar & Composition 1	3	0	3	3
SPA 101 - Elementary Spanish 1	3	0	3	3
MATH 101 - College Algebra 1	5	0	5	5
NAUT 101-ME- Basic Marine Engineering	3	0	3	3
P T 101 - Physical Training 1	0	2	2	1
NROTC101 - Naval Science (NS-11)	6	2	8	2
T O T A L			36	28
* * * * *				

First Year  
(Second Semester)

<u>S U B J E C T S</u>	<u>Lecture</u> <u>Hours</u>	<u>Laboratory</u> <u>Hours</u>	<u>Hours</u> <u>Week</u>	<u>Units</u>
NAUT 102-N - Navigation 2	5	0	5	5
NAUT 102-5 - Seamanship 2	3	2	5	4
ENG 102- - Grammar & Composition 2	3	0	3	3
SPA 102 - Elementary Spanish 2	3	0	3	3
MATH 102 - Palne & Spherical Tri- gonometry & Slide Rule	3	0	3	3
M D -102 - Mechanical Drawing	0	2	2	1
P T 102 - Physical Training 2	0	2	2	1
NROTC101 - Naval Science (NS-12)				
T O T A L			36	26

P M M A の カ リ キ ュ ラ ム  
(BSMT)

(2)

SECOND YEAR  
(First Semester)

<u>S U B J E C T S</u>	<u>Lecture</u> <u>Hours</u>	<u>Laboratory</u> <u>Hours</u>	<u>Hours</u> <u>Week</u>	<u>Units</u>
NAUT 201-N - Navigation 3	3	3	6	4
NAUT 201-S - Seamanship 3 & Cargo Work	3	0	3	3
NAUT 201MLR- Marine Laws & Regulations 1	2	0	2	2
PIL 201 - Rhetoric & Composition	3	0	3	3
SPA 201 - Spanish 3 (Inter, Spa. 1)	3	0	3	3
PSYCHO201 - Fundamental Psychology	3	0	3	3
NTR.Sc.201 - Meteorology	3			
P T 201 - Physical Training 1	0	2	2	1
NROTC201 - Naval Science (NS-21)	6	2	8	2
T O T A L			33	24
* * * * *				

SECOND YEAR  
(Second Semester)

<u>S U B J E C T S</u>	<u>Lecture</u> <u>Hours</u>	<u>Laboratory</u> <u>Hours</u>	<u>Hours</u> <u>Week</u>	<u>Units</u>
NAUT 202-N - Navigation 4	5	3	8	6
NAUT 202-S - Seamanship 4	3	0	3	3
NAUT 202MLR- Marine Laws & Regulations 2	3	0	3	3
NAUT 202-5B- Ship Business 2	2	0	2	2
HIST 202 - World History	3	0	3	3
*CHEM 202 - General Chemistry	3	6	9	5
SPA 202 - Spanish 4 (Inter, Spa. 2)	3	0	3	3
P T 202 - Physical Training 2	0	2	2	1
NROTC202 - Naval Science (NS-22)	6	2	8	2
T O T A L			40	27

\*CHEM. 6 Hrs. Lab. 2 Units  
effective SY 1980 - 81

(3)

THIRD YEAR  
(First & Second Semester)

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S U B J E C T S	Period	Units
NAUTICAL 301 - Shipboard Training Projects	12 Months	10
NAVIGATION		
GARGO STOWAGE		
SHIP HANDLING		
SEAMANSHIP		
METEOROLOGY		
COMMUNICATION		
MATHEMATICS		
SHIPBOARD TRAINING REPORTS		

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P M M A のカリキュラム  
( B S M E )

FOURTH YEAR  
(First Semester)

<u>S U B J E C T S</u>	<u>Lecture</u> <u>Hours</u>	<u>Laboratory</u> <u>Hours</u>	<u>Hours</u> <u>Week</u>	<u>Units</u>
NAUT.MT 401 - Marine Transportation	3	0	5	5
NAUT.RA 401 - Naval Architecture	3	3	6	4
NAUT.EN 401 - Electronics Navigation	2	3	5	3
NAUT.MI 401 - Marine Insurance	2	0	2	2
NAUT.SH 401 - Ship Handling	0	3	3	1
MATH. 401 - Analytic Geometry	3	0	3	3
ENG. 401 - Technical English	3	0	3	3
NAUT.C 401 - Compass	1	0	1	1
NROTC 401 - Naval Science (NS-41)	6	2	8	2
T O T A L			36	24
* * * * *				

FOURTH YEAR  
(Second Semester)

<u>S U B J E C T S</u>	<u>Lecture</u> <u>Hours</u>	<u>Laboratory</u> <u>Hours</u>	<u>Hours</u> <u>Week</u>	<u>Units</u>
NAUT.AE 402 - Applied Economics	3	0	3	3
JAX.&LR 402 - Taxation & Land Reform	3	0	3	3
NAUT.IL 402 - International Laws	3	0	3	3
PIL 202 - Pilipino Literature	3	0	3	3
MATH. 402 - Calculus	3	0	3	3
NAUT.SM 202 - Ships Medicine	2	0	2	2
SO.SC. 202 - Works of Rizal	3	0	3	3
NAUT 402 - Oceanography	3	0	3	3
HIST 402 - Philippine History	3	0	3	3
NROTC 402 - Naval Science (NS-42)	6	2	8	2
Const 402 - Philippine Constitution	3	0	3	3
POP.EDJ.402 - Population Education	3	0	3	3
T O T A L			40	34



(1)

FOUR YEAR MARINE ENGINEERING CURRICULUM LEADING TO  
BACHELOR OF SCIENCE IN MARINE TRANSPORTATION (BSME)

FIRST YEAR  
(First Semester)

<u>S U B J E C T S</u>	<u>Lecture Hours</u>	<u>Laboratory Hours</u>	<u>Hours Week</u>	<u>Units</u>
SHOP 101 - Machine Shop Theory 1	1	2	3	2
MATH 101 - College Algebra	5	0	5	5
*CHEM 101 - General Chemistry				
a. Theory	3	*6	9	3
b. Practice	2			2
ENG 101 - Grammar & Composition 1	3	0	3	3
SPA 101 - Elementary Spanish 1	3	0	3	3
M D 101 - Mechanical Drawing 1	0	6	6	2
NAUT 1015 - Seamanship	3	0	3	3
P T 101 - Physical Training 1	0	2	2	1
NROTC101 - Naval Science (NS-11)	6	2	8	2
T O T A L			42	26
* * * * *				

FIRST YEAR  
(Second Semester)

<u>S U B J E C T S</u>	<u>Lecture Hours</u>	<u>Laboratory Hours</u>	<u>Hours Week</u>	<u>Units</u>
SHOP 102 - Machine Shop Theory 2	1	2	3	2
MATH 102 - Plane Trigonometry, Solid Geometry & Slide Rule	3	0	3	3
ENG 102 - Grammar & Composition 2	3	0	3	3
SPA 102 - Elementary Spanish 2	3	0	3	3
M D 102 - Mechanical Drawing 2	0	6	6	2
ME-DE102 - Diesel Engineering 1	2	2	4	3
ME-SE102 - Steam Engineering 1 (Steam Boilers)	3	2	5	4
P T 102 - Physical Training 2	0	2	2	1
NROTC102 - Naval Science (NS-12)	6	2	8	2
T O T A L			37	23

\* CHEM. 6 Hrs. Lab. 2 Units  
effective SY 1980-'81

PMMAのカリキュラム  
(BSME)

SECOND YEAR  
(First Semester)

<u>S U B J E C T S</u>	<u>Lecture Hours</u>	<u>Laboratory Hours</u>	<u>Hours Week</u>	<u>Units</u>
EE-DC 201 - Electrical Engineering 1	3	3	6	4
PHY 201 - College Physics 1	3	0	3	3
MATH 201 - Analytic Geometry & Differential Calculus	5	0	5	5
ME-SE 201 - Steam Engineering 2 Auxiliary Apparatus	3	0	3	3
PIL 201 - Phetoric & Composition	3	0	3	3
SPA 201 - Spanish 3 (Inter. Spa. 1)	3	0	3	3
PSYCHO201 - Fundamental Psychology	3	0	3	3
P T 201 - Physical Training 3	0	2	2	1
NROTC 201 - Naval Science (NS-21)	<u>6</u>	<u>2</u>	<u>8</u>	<u>2</u>
T O T A L			36	27
* * * * *				

SECOND YEAR  
(Second Semester)

<u>S U B J E C T S</u>	<u>Lecture Hours</u>	<u>Laboratory Hours</u>	<u>Hours Week</u>	<u>Units</u>
EE-AC 202 - Electrical Engineering 2	3	2	5	4
ME-SE 202 - Steam Engineering 3 (Reciprocating Engines 1)	3	2	5	4
PRY 202 - College Physics 2	3	2	5	4
ME-ST 202 - Steam Engineering 4 (Steam Turbines 1)	2	3	5	3
MATH 202 - Integral Calculus & Elemen- tary (Differential Equation)	3	0	3	3
HIST 202 - World History	3	0	3	3
SPA 202 - Spanish 4 (Inter. Spa. 2)	3	0	3	3
P T 202 - Physical Training 4	0	2	2	1
NROTC 202 - Naval Science (NS-22)	<u>6</u>	<u>2</u>	<u>8</u>	<u>2</u>
T O T A L			39	27

THIRD YEAR  
(First & Second Semester)

S U B J E C T S	Period	Units
M. E. 301 - Shipboard Training Projects	12 Months	10
Steam Engineering		
Diesel Engineering		
Turbines		
Electrical Engineering		
Naval Architecture & Ship Construction		
Machine Shop Practice		
Applied Laboratory Works		
Mathematics		
Marine Laws & Regulations		
Shipboard Training Report		

PMMAのカリキュラム  
(BSME)

(4)

FOURTH YEAR  
(First Semester)

<u>S U B J E C T S</u>		<u>Lecture</u> <u>Hours</u>	<u>Laboratory</u> <u>Hours</u>	<u>Hours</u> <u>Week</u>	<u>Units</u>
ME-SEA	401 - Steam Engineering 5 (Reciprocating Engines 2)	3	2	5	4
ME-AT	401 - Applied Thermodynamics	3	0	3	3
ME-SM	401 - Strength of Materials	3	0	3	3
HIST	402 - Phil. History	3	0	3	3
MLR-MT	401 - Marine Laws & Regulations & Marine Transportation	3	0	3	3
N-MI	401 - Marine Insurance	2	0	2	2
N-IL	401 - International Law	3	0	3	3
PIL	401 - Pilipino Literature	3	0	3	3
ENG	401 - Technical English	3	0	3	3
NROTC	401 - Naval Science (NS-41)	6	2	8	2
T O T A L				36	29

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FOURTH YEAR  
(Second Semester)

<u>S U B J E C T S</u>		<u>Lecture</u> <u>Hours</u>	<u>Laboratory</u> <u>Hours</u>	<u>Hours</u> <u>Week</u>	<u>Units</u>
ME-RAC	402 - Refrigeration & Air Conditioning	3	3	6	4
ME-DE	402 - Diesel Engineering 2	2	3	5	3
N-AE	402 - Applied Economics	3	0	3	3
TAX.&LR	402 - Taxation & Land Reform	3	0	3	3
NA	402 - Naval Architecture	3	0	3	3
SO-SC	402 - Works of Rizel	3	0	3	3
NE-ST	402 - Steam Engineering 6 (Steam Turbines 2)	3	2	5	4
NROTC	402 - Naval Science (NS-42)	2	6	8	2
CONST.	402 - Phil. Constitution	3	0	3	3
POP.EDU	402 - Population Education	3	0	3	3
T O T A L				42	31

BACHELOR OF SCIENCE IN MARINE TRANSPORTATION (BSMT)

MAJOR : IN NAVIGATION AND SEAMANSHIP

FIRST YEAR

		<u>First Semester</u>	<u>Lec.</u>	<u>Lab.</u>	<u>Units</u>
NV	111	- Navigation I: Elements of Navigation	3	3	4
SEA	III	- Seamanship I: Ship Organization, Nomenclature & Classification, Elementary Seamanship & Ground Tackle	3	0	3
P S	111	- Practical Seamanship I: Elementary Swimming, Knots, Hitches & Bends, Splicing & Canvas Works	0	3	1
ENG	111	- English I: Communication Arts I	3	0	3
PIL	111	- Pilipino I: Sining ng Pakikipagtalastssan	3	0	3
MATH	111	- Meth I: College Algebra	3	0	3
SSci	111	- The Philippine Government under the New Constitution, Including Public Service & Reorganization	3	0	3
TYPE	111	- Fundamentals of Typewriting	0	3	1
A S	111	- Aptitude for Service I: Orientation	1	0	1
N S	111	- Naval Science & Tactice	_____	_____	<u>(1.5)</u>
			19	9	22

Private Maritime School のカリキュラム  
(BSMT)

Second Semester

		<u>Lec.</u>	<u>Lab.</u>	<u>Units</u>
NAV	121 - Navigation II: Piloting	3	3	4
SEA	121 - Seamanship II: Safety of Life at Sea, Fire & Fire Fighting Equipment	3	0	3
P B	121 - Practical Seamanship II: Swimming Styles & Diving	0	3	1
ENG	121 - English II: Communication Arts II	3	0	3
PIL	121 - Pilipino II: Panitikeng Pilipino	3	0	3
MATH	121 - Math II: Plane Trigonometry	3	0	3
SSci	121 - The Life & Works of Dr. Jose Rizal	3	0	3
A B	121 - Aptitude for Service II: Professional Ethics	1	0	1
S	121 - Naval Science & Tactics			<u>(1.5)</u>
		<u>19</u>	<u>6</u>	<u>21</u>

SECOND YEAR

First Semester

		<u>Lec.</u>	<u>Lab.</u>	<u>Units</u>
NAV	211 - Navigation III: Nautical Astronomy	3	3	4
SEA	211 - Seamanship III: International Rules of the Road and IMCO Regulations	3	0	3
P S	211 - Practical Seamanship III: Life-Saving, First Aid and Advanced Swimming Techniques	0	3	1
MATH	211 - Math III: Solid Mensuration and Spherical Trigonometry	3	0	3
SPAN	211 - Spanish I: Elem. Spanish	3	0	3
ENG	211 - English III: Business English and Correspondence	3	0	3
PHYS	211 - Statistics & Dynamics	3	3	4
N S	21 - Naval Science & Tactics			(1.5)
		18	9	21

Second Semester

NAV	221 - Navigation IV: Latitude, Longitude & Azimuth	3	0	4
SEA	221 - Seamanship IV: Cargo Stowage & Handling	3	0	3
P S	221 - Practical Seamanship IV: Rowing & Handling of Small Boats, Abandon Ship, Damage Control & Preservation of Life at Sea	0	3	1
MET	221 - Meteorology I: Weather condition & Observation	3	0	3
ENG	221 - English IV: Technical Report Writing	3	0	3
SPAN	221 - Spanish II: Intermediate Span.	3	0	3
PHYS	221 - Physics II: Magnetism Electricity and Sound	3	3	4
N S	21 - Naval Science & Tactics			(1.5)
		18	9	21

Private Maritime School のカリキュラム  
(BSMT)

THIRD YEAR

First Semester

		<u>Lec.</u>	<u>Lab.</u>	<u>Units</u>
NAV	311 - Navigation V: Practical Problems in Navigation	3	3	4
SEA	311 - Seamanship V: Stability & Trim	3	0	3
SPAN	311 - Spanish III: Advanced Spanish	3	0	3
M E	311 - Basic Marine Engineering with Electrotechnology	2	3	3
SSci	311 - Taxation and Land Reform	3	0	3
MET	311 - Meteorology II: Oceanography with Marine Pollution	3	0	3
M E	311 - Marine Laws I: Marine Laws and Cost-Wise Trade	3	0	3
		<hr/>	<hr/>	<hr/>
		20	6	22

Second Semester

NAV	321 - Navigation VI: Electronic Navigation	3	3	4
SEA	321 - Seamanship VI: Shipyard Practice with Hull Preservation	3	0	3
SSci	321 - Transportation Economics with Philippine Economic Geography & Family Planning	3	0	3
SSci	321 - General Psychology with Moral Regeneration & Drug Abuse Education	3	0	3
M L	321 - Marine Laws II: Marine Insurance, Foreign Trade & Ship Business	3	0	3
COMM	321 - Visual & Audio Communication	2	3	3
SPAN	321 - Spanish IV-N: Selected Pilipino Writings in Spanish	3	0	3
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		20	6	22

FOURTH YEAR

(First Semester - 6 Months)

Shipyard Training (Practical Apprenticeship)	18
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TWO YEAR COURSE  
ASSOCIATE IN MARINE ENGINEERING

FIRST YEAR

FIRST SEMESTER

<u>Course Number</u>	<u>Subjects</u>	<u>Lec.</u>	<u>Lab.</u>	<u>Units</u>
Engl. 111	Grammar & Composition	3	0	3
Span 111	Elementary Spanish	3	0	3
Meth 111	College Algebre & Plane Trigo.	5	0	5
Phys 111	Engineering Physics I	3	0	3
Draw 111	Engineering Drawing I	0	6	2
Phil C 111	Philippine Constitution	3	0	3
Mar E 112	Mechanical Processes I	0	6	2
P E 111	Physical Education			(1)
NROTC 19	Naval Science & Tactics			(1.5)
		17	12	21

SECOND SEMESTER

Engl. 121	Grammar & Composition	3	0	3
Span 121	Intermediate Spanish	3	03	3
Math 121	Solid Geometry & Spher. Trigo.	3	0	3
Phys 121	Engineering Physics II	3	6	5
Draw 121	Engineering Drawing II	0	6	2
Mar E 122	Mechanical Processes II	0	6	2
P E 121	Physical Education			(1)
NROTC 20	Naval Science & Tactics			(1.5)
		15	18	21

Private Maritime School のカリキュラム  
( Associate course )

SECOND YEAR

FIRST SEMESTER

<u>Course Number</u>	<u>Subject</u>	<u>Lec.</u>	<u>Lab.</u>	<u>Units</u>
Engl. 212	Business Correspondence, Engl. Report & Public Speaking	3	0	3
Span 211	Advanced Spanish	3	0	3
Mar E 211	Internal Combustion Engines	3	6	5
E E 211	Elements of Elect. En'g.D.C.	2	3	3
Mar E 215	Marine Refrigeration	2	3	3
Lit 211	Rizal's Life, Works & Writings	3	0	3
P E 211	Physical Education			(1)
NROTC 21	Naval Science & Tactice			(1.5)
		16	12	20

SECOND SEMESTER

Span 221	Philippine Lit. in Span.	3	0	3
E E 221	Elements of Elect. Eng'g. En'g. A.C.	2	3	3
Mar E 221	Steam Engineering	3	6	5
Mar E 224	Ship Drafting	1	3	2
Mar E 225	Engineering Materials	2	0	2
A S 221	Aptitude for Service	1	0	1
Type 111	Typewriting			(1)
TLR 221	Taxation, Land Reform, Population Educations, Pollutions, etc.	2	0	2
YCAP	Youth Civic Action Program	0	3	1
P E 221	Physical Education			(1)
NROTC 22	Naval Science & Tactics			(1.5)
		16	15	21

NOTE : Two (2) years spprenticship after completion of the Course in Marine Engineering is a requirement for the Board of Examinations.

SIX-MONTH CURRICULUM FOR BASIC  
SEAMAN TRAINING COURSE

<u>Course No.</u>	<u>Subject Description</u>	<u>Total Number of Hours</u>
ENGLISH 101	Basic English Composition & Communication Skills.....	30
MATH 101	Applied Mathematics & Physics .....	30
SEAMAN 101	Principles of Seamanship .....	40
SEAMAN 102	Marlinespike Seamanship .....	40
SEAMAN 103	Deck Seamanship .....	40
SEAMAN 104	Shipboard Administration .....	20
DCFF 101	Damage Control & Fire Fighting .....	25
SSFA 101	Survival at Sea & First Aid .....	35
NAV 101	Principles of Navigation .....	15
ENG'G 101	Internal Combustion Engine .....	45
ENG'G 102	Steam Turbine, Engine & Boiler .....	45
ELEC 101	Electrotechnology .....	45
CAT 101	Catering and Cutlery .....	30
ETH 101	Ethics of the Seaman .....	15
OJT	On the Job Training on Vessel Docked at Pier and/or Underway .....	60
OVERALL TOTAL		640 Hrs.

Private Maritime School のカリキュラム  
( Basic Seaman's Course )

その他、訓練・再教育施設として下記のものがある。

(a) Radar Observer's Course 関係

(i) NAUTICA

(ii) Philippine Merchant Marine Academy

(iii) Magsaysay Lines Training Center

(iv) Western Marine Inc.

(v) Associated Marine Officers & Seamen's Union of the Philippines

(AMOSUP)

(vi) Oriental Maritime Inc.

(vii) Mats College of Technology (Davao)

(b) Radar Simulator Course

(i) Philippine Merchant Marine Academy

(ii) Magsaysay Lines Training Center

現在は、NMPは上記施設にNMPは委託し再教育している。

## NMP. 5ヶ年計画機材リスト.

### NATIONAL-MARITIME POLYTECHNIC TEACHING-STAFF and TRAINING EQUIPMENT DECK OFFICERS UPGRADING COURSE

#### TRAINING EQUIPMENT

Description	Quantity Required
Navigation and Deck Seamanship	
Gyro compass system with master compass, gyro-sphere power connector, box, bearing repeater on console, azimuth device and spare parts	1 set
Automatic Pilot system to operate with gyro compass	1 set
Turntable device with auto pilot simulator	1 set
Radio-directional finder	1 set
Line Throwing Apparatus	1 set
Ship's navigation lights simulator	1 set
Models of ship's light and buoys for rules of road and byoyage system	1 set

第 5 表

<u>Year Started</u>	<u>Particulars</u>
1980	Guard House
1980	One-Storey School Building
1980	Site Development-Phase I
1981	Staff Houses (25 units)
1981	Dormitory Building
1981	Marine Engineering Building
1981	Navigation and Seamanship Building
1981	Catering Building
1981	Laboratories and Schools
1981	Main Engine and Auxiliary Engine Building
1981	Site Development-Phase II
1981	Firefighting Building
1981	Museum and Library
1981	Powerhouse
1981	Guest Houses (4 units)
1981	Cottages
1982	Administration Building
1982	Club House
1982	Motor Pool
1982	Chapel
1982	Playground Development
1982	Tree Planting
1983	Auditorium
1983	Wharf

NATIONAL MARITIME POLYTECHNIC  
TEACHING STAFF AND TRAINING EQUIPMENT  
FOR THE ENGINE OFFICERS UPGRADING COURSE

Training Equipment:

Description	Quantity Required
Simulators	
Steam engine simulator	1 set )
Diesel engine simulator	1 set )
Auxiliary and main engine remote and monitoring control simulator	1 set )
Subtotal	

Used solely for officers course:

Tail shaft and stern gland model	1 set
Diesel engine (cut model)	1 set
Thrust bearings tunnel block, stern tube and gland (cut model)	1 set
Automated diesel propelling machinery	1 set

NATIONAL MARITIME POLYTECHNIC  
TEACHING STAFF AND TRAINING EQUIPMENT  
FOR THE STEWARD AND RADIO DEPARTMENTS

Chief Steward and Chief Cook Courses

Training equipment:

Equipment consisting of freezers, gas ovens, gas ranges  
and kitchenware

Radio Officers Course

Training equipment:

<u>Description</u>	<u>Quantity Required</u>
Multiband marine transmitter receiver	2 sets
Radio tape coder-programme machine	1 set
Facsimile transceiver	1 set
Radio teletype transceiver	1 set
Single side band transceiver	1 set
Double side band transceiver	1 set
Independent side band transceiver	1 set
Auto alarm	1 set
Radio cassette tape recorder and player	2 sets
Miscellaneous hand tools and test equipment	

Able Seamen Course

Training equipment:

Deck equipment, life boat and cargo riggings

Lifeboat Man Course

Training equipment:

Life boat, in inflatable liferaft, life boat riggings,  
and life saving equipment



FOR THE SPECIAL COURSES

Radar Observer Course

Training equipment:

	<u>Quantity Required</u>
Radar set (operating)	1 unit
Movie projector	1 unit
Slide projector	1 unit
Overhead projector	1 unit
Radar set (model)	1 unit
Miscellaneous training equipment and instruments	

Radar Simulator Course

Training Equipment:

	<u>Quantity Required</u>
Radar simulator	1 unit
Movie projector	1 unit
Slide projector	1 unit
Overhead projector	1 unit
Miscellaneous training equipment and instrument	

Tanker Safety Course and  
Dangerous Cargo Course

Training equipment:

<u>Description</u>	<u>Quantity Required</u>
Movie projector	1 unit
Slide projector	1 unit
Overhead projector	1 unit
Miscellaneous training equipment and instrument	

Ship Medicine Course

Training equipment:

<u>Description</u>
Minor surgery instruments
Human model
Miscellaneous training equipment and instruments

Firefighting Course

Training equipment:

<u>Description</u>	<u>Quantity Required</u>
Oxygen breathing apparatus	15 sets
Water pump	2 sets
Movie projector	1 unit
Asbestos suit and gloves	2 sets







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