



NSA CADETS EDUCATION AND TRAINING PROFILE

Schools Curriculum

School curriculum is developed by schools Academic Committee. This is reviewed and approved by the Commission of Higher Education before it is implemented. Curriculum and descriptive titles may vary but covers all the requirements of CHED in consonance with the IMO Model Courses and STCW requirements.

Bachelor of Science in Marine Transportation FIRST ACADEMIC YEAR

First Semester

1. Intro to College Mathematics
2. Applied College Algebra
3. Applied Plane and Spherical Trigonometry
4. Ship and Ship Routines
5. Communication Skills 1
6. Computer Operation
7. Basic Swimming
8. Naval ROTC

Second Semester

1. Applied Solid Mensuration
2. Terrestrial Navigation
3. Ship Construction
4. Collision Regulation for Deck Officer
5. Communications Skills 2
6. Oceanography
7. General Chemistry
8. Swimming Life Saving Techniques
9. Naval ROTC

SECOND ACADEMIC YEAR

First Semester

1. Celestial Navigation 1
2. Stability and Trim
3. Electronic Navigation 1
4. Signals and Basic Communication
5. Maritime English
6. General Physics (Mechanics and Fluids)
7. Watch keeping for Deck Officers
8. Fundamentals of rowing and Boat Command

Second Semester

1. Celestial Navigation 2
2. Cargo Handling and Stowage
3. Electronic Navigation 2
4. Radio Communication
5. Technical Writing
6. Physics (Heat, waves, sound and light)
7. Fundamentals of Canoeing and sailing
8. Phil. History / constitution / taxation and land reform



Bachelor of Science in Marine Engineering FIRST ACADEMIC YEAR

First Semester

1. Intro to College Mathematics
2. Communication Skills 1
3. Physics (Energy, Work and Power)
4. Ship and Ships Routine
5. Machine Shop 1
6. Marine Engineering Drawing
7. Basic Swimming
8. Naval ROTC

Second Semester

1. College Algebra
2. Applied Plane Trigonometry and Solid Mensuration
3. Communication Skills 2
4. Physics 2 (Mechanics and Heat)
5. Machine Shop 2
6. Engineering Materials
7. Advance Swimming and Life Savings Techniques
8. Computer Operation
9. Naval ROTC

SECOND ACADEMIC YEAR

First Semester

1. Maritime English
2. Applied Analytic Geometry and Calculus
3. Machine Shop 3
4. Thermodynamics
5. Electro Technology 1
6. Marine Power Plant 1 - Diesel
7. Fundamentals of Rowing and Boat Commands
8. Watchkeeping , Engine Officers

Second Semester

1. General Chemistry
2. Research w/ Statistics
3. Philippine History, Constitution, Taxation and Land reform
4. Electro Technology 2
5. Mechanics and Hydromechanics
6. Auxiliary Machinery 1
7. Fundamental of Canoeing and sailing
8. Gen Psycho w/ Alcohol & Drugs, HIV, AIDS



SHIPBOARD TRAINING PERIOD

The Cadets Shipboard training starts on their third year. NSA Philippines Cadet Project distributes these cadets to different shipping principals for their shipboard training. The intended duration of this Shipboard training is one (1) year .

The Shipping Company employs Cadets as their regular crew. They are guided by company's policies, employment conditions and training program.

While on board the Cadets accomplishes the following:

- ❖ **ISF Training Record Book** - a training and record book that takes the full account of the IMO Convention Standards of Training, Certification and Watch keeping for Seafarers (STCW) requirements including provisions concerning shipboard familiarization.
- ❖ **Company Training Program** - a supplemental training program specified by individual Company's Quality Assurance Manual, company's trade and business or vessel construction. This includes Computer base training, Safety Drills, ships gears and equipments.
- ❖ **Hands on Experience** - ISF Training record book provides specific task for hands on experience on support and operational level. This is attained with the close supervision of Ship Senior Officers by providing Cadets specific task to accomplish.
- ❖ **Shipboard Evaluation** - the most important aspect is for the Ship Officers to validate the knowledge learned through an objective assessment of cadet's progress while on board.

NSA Training Program

NSA Philippines Cadet Project provides training and upgrading courses for cadets.

These upgrading and training is based on:

- ❖ NSA Philippines Cadet Project Evaluation and Assessment
- ❖ Company requirements
- ❖ Industry Requirements
- ❖ Human Resource development initiatives

NSA Philippines Cadet Project monitors any deficiency and facilitates to provide solutions to these observations through evaluations and assessment. Upgrading courses are developed to provide solutions to findings and observations.

Attachment 1 – Schedules of Computer Based Training Module Schedule. Integrated during their Academic year.



Attachment 2 – Schedule of training, upgrading and seminar during their Academic year.

Bachelor of Science in Maritime Transportation THIRD ACADEMIC YEAR

First Semester

1. Marine Laws
2. Ship Handling and Maneuvering
3. Electronic Navigation (ARPA Sim.)
4. Merchant Ship Search and Rescue
5. Meteorology
6. Research with Statistics
7. Gen Psycho w/ Alcohol / Drug/ HIV/ AIDS
8. Filipino (Sining ng Pakikipagtalastasan)

Second Semester

1. Seamanship Problems
2. Marine Pollution and Prevention
3. Navigational Problems
4. Personnel Management
5. Physics (Electricity and Magnetism)
6. Marine Power Plant
7. Humanities w/ world geography
8. Filipino (Pagbasa at Pagsulat sa ibat ibang disciplina)
9. Social Science (Rizal's works)
10. Basic Safety

Bachelor of Science in Marine Engineering THIRD ACADEMIC YEAR

First Semester

1. Electro technology 3
2. Fuel, Oil and Lubricants
3. Auxiliary Machinery 2
4. Marine Power Plant 2- Steam
5. Marine Pollution and Prevention
6. Rizal's life and works
7. Filipino (Sining ng Pikikipagtalastasan)
8. Information Technology
9. Basic Safety

Second Semester

1. Personnel Management
2. Marine Laws
3. Engine Room Simulation
4. Intro to Naval Architecture w/ stability
5. Marine Automation
6. Technical writing
7. Instrumentation and Control
8. Filipino (Pagbasa at Pagsulat sa ibat ibang disciplina)
9. Humanities w/ world geography

BACHELORS DEGREE

Bachelors degree are conferred only upon the completion of Academic requirements and one (1) year Sea Service.