



SP+ELLY

Diploma in
Nautical Studies

I can choose my own adventure

With SP, it's So Possible

S63 Marine Engineering

S74 Maritime Business

DAE Nautical Studies



SMA

Singapore Maritime Academy
SINGAPORE POLYTECHNIC



I Can Choose MY OWN ADVENTURE

Go on an adventure and ride the waves with the Singapore Maritime Academy.

At Singapore's first maritime training institution, you can gain knowledge and skills to navigate the oceans. You can also tap on engineering disciplines to turn a ship into a moving city. You are exposed to the wide array of shipping business activities. Your adventure begins under the guidance of experienced lecturers and with hands-on training using state-of-the-art simulators and facilities.

When you graduate, you can be part of Singapore's growing maritime industry – one of the world's busiest seaport and one of the world's largest container ports.



WHY SMA?

At SMA, you will learn in a state-of-the-art maritime Integrated Simulation Centre (ISC) and advanced labs. There's also a Marina for you to experience hands-on training in seamanship and survival skills.

A highlight of our courses is the Maritime Experiential Learning (MEL) Camp, a floating campus experience carried out onboard a ship. Sail onboard the STS Pallada, the world's fastest tall ship, to learn practical navigation and traditional sailing skills. Our students are given many opportunities for overseas exposure on study tours and community service.



DIPLOMA IN MARINE ENGINEERING

(DMR – S63)



The Diploma in Marine Engineering (DMR) course encompasses various engineering disciplines that is required to make you understand ship construction and how a ship works as an independent power plant:

- Marine / mechanical engineering
- Electrical and electronic engineering
- Naval architecture
- Offshore technology
- Control technology

Besides lectures and laboratory work, you will be exposed to advanced ship engineering system simulators and various training software. Our machinery workshops are equipped to train students for operational competencies they would require in the workplace, be it onboard a ship or a shore-based establishment.

You will have the special opportunity to choose between a sea-going or shore-based route during your third year.



ENTRY REQUIREMENTS

2016 JAE ELR2B2: 16

Aggregate Type: ELR2B2-C

SUBJECT	GRADE
English Language	1 - 7
Mathematics (Elementary/Additional)	1 - 6
One of the following 3rd relevant subjects:	1 - 6

- Biology
- Biotechnology
- Chemistry
- Design & Technology
- Fundamentals of Electronics
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

All Applicants must pass the colour vision test as per The International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW).

COURSE MODULES



The Diploma in Marine Engineering is a three-year full-time programme that includes a six-month Industrial Training Programme with an approved establishment.

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP.

Students will take SP101A: Education and Career Guidance 1 – Personal Development (15 hours) in their first year.

In their second or third year, students will take SP201A: Education and Career Guidance 2 – Career Development (30 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL module as an elective.

FIRST YEAR

- Applied Mechanics
- Electric Circuits
- Marine Engineering Knowledge 1
- Workshop Practice 1
- Basic Mathematics
- Basic Occupational Safety and Security Training
- Basic Thermodynamics
- Instrumentation
- Engineering Drawing
- Engineering Mathematics 1
- Naval Architecture 1
- Workshop Practice 2
- General Education 1
- General Education 2

SECOND YEAR

- Applied Thermodynamics
- Auxiliary Machinery
- Electronics
- Integrated Workshop Practice
- Marine Engineering Knowledge 2
- Engineering Mathematics 2
- Computer-Aided Drafting
- Integrated Control
- Engineering Mathematics 2
- Naval Architecture 2
- Report Writing and Presentation
- General Education 3
- Social Innovation Project
- Marine Engine Room Simulator Training

THIRD YEAR

- Basic Tanker Training
- Communicating for Professional Effectiveness
- Electric Machines & Systems
- Marine Workshop Practice
- Marine Power Plant
- Naval Architecture Design & Project
- Software Application for Naval Architecture
- Internship Programme

CAREER OPTIONS

DMR is one of the most versatile programmes and it offers you career flexibility. You can apply your knowledge to a wide-ranging field of engineering technologies.

With the training received, a wide variety of career options and opportunities await our graduates. Our graduates are employed as marine engineers on ships as well as engineers in shipyards, offshore oil and gas industries and non-maritime engineering firms. Many of our graduates are also suitably employed in sales and service positions in various engineering companies.

Age	Sea Salary	Your Future
20		Diploma in Marine Engineering → Shore Job • Marine Industry • Service Industry • Oil Industry
		↓ Sea Training
22+	S\$3,000++	Junior Engineer → Further Studies
		↓
26	S\$7,500++	Second Engineer → Shore Job • Middle Management • Marine Industry • Service Industry • Oil Industry
		↓ International recognised Professional Qualification
29	S\$10,000++	Chief Engineer

++ Tax free income plus paid leave

“I had the opportunity to board various vessels and was exposed to the challenges of a seafaring career, and the in-depth knowledge and skills required for the role during my internship at the Sembawang shipyard. These experiences made me more determined to contribute to the maritime industry as a marine engineer. I look forward to my attachment at shipping company Pacific International Lines Pte Ltd as a sea cadet.”

Muhammad Nur Hidayat bin Rasiti
DMR Gold Medallist and Lee Kuan Yew Award winner, Class of 2014



FURTHER STUDIES

You can gain direct entry into related engineering degree programmes in NUS, NTU and overseas universities or pursue a BEng (Hons) in Naval Architecture, Marine Engineering or Offshore Engineering offered by Newcastle University through the Singapore Institute of Technology (SIT).

DIPLOMA IN MARITIME BUSINESS

(DMB – S74)



If you are looking for a challenging and rewarding career in the maritime industry without having to go to sea, take the Diploma in Maritime Business (DMB).

As the world's busiest seaport and one of the world's largest container ports, there is a continuous demand for maritime and logistics-related organisations involved in a wide range of shipping business activities in Singapore. Graduates from DMB will fill this manpower gap.



COURSE HIGHLIGHTS

- A practice-oriented course that links theory and practice through hands-on training, case studies and field visits
- An extensive programme that prepares you to be versatile, enabling you to gain employment in various sectors within the maritime industry
- Six-month shore-based internship during the second year which provides first-hand experience of working in maritime-related organisations



ENTRY REQUIREMENTS

2016 JAE ELR2B2: 16

Aggregate Type: ELR2B2-C

SUBJECT	GRADE
English Language	1 - 7
Mathematics (Elementary/Additional)	1 - 6
Any two other subjects	1 - 6

Note: To be eligible for admission, you must also have sat for one of the following subjects:

- Biology
- Biotechnology
- Chemistry
- Computer Studies
- Creative 3D Animation
- Design & Technology
- Food & Nutrition
- Fundamentals of Electronics
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

COURSE MODULES



The Diploma in Maritime Business is a three-year full-time programme and includes a six-month Internship Programme with an approved establishment.

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP.

Students will take SP101A: Education and Career Guidance 1 – Personal Development (15 hours) in their first year.

In their second or third year, students will take SP201A: Education and Career Guidance 2 – Career Development (30 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL module as an elective.

First Year

- Bunkering Practices
- Communication for Personal & Team Effectiveness
- Financial Accounting in Shipping
- Introduction to Maritime Industry
- IT for Shipping Business
- Logistics Management
- Marine Engineering Knowledge
- Maritime Economics
- Maritime Personnel Management
- Port Operations
- Ship Operations
- Statistics for Shipping Business I
- General Education 1

Second Year

- Communication for Project (Proposal) Effectiveness
- Financial Management in Shipping
- Internship Programme
- Law of Carriage of Goods by Sea
- Port Agency
- Port Management
- Statistics for Shipping Business II
- General Education 2 (Social Innovation Project)

Third Year

- Electronic Commerce
- HSSE Management
- Marine Insurance
- Maritime Law
- Marine Offshore Operations
- Marketing of Shipping Services
- Project
- Ship Broking and Chartering
- Ship Management
- Supply Chain Management
- Communicating for Project (Report) Effectiveness
- Communicating for Professional Effectiveness
- General Education 3



“SP’s DMB course was my first choice as I knew that I will be learning in a robust and dynamic environment. The knowledgeable and engaging lecturers shared their rich experiences and exposed us to the realities of the Maritime industry. It has truly been an enriching time at SP for me.”

AARON GOH

DMB Gold Medallist and Chua Chor Teck Gold Medal winner, Class of 2015, who plans to pursue a business degree with a local university or pursue a maritime degree at the University of Plymouth (UK) under the Singapore Maritime Foundation Scholarship after his national service.

CAREER OPTIONS

On graduation, DMB graduates are highly sought after for appointments as junior executives in organisations running ship owning/management; ship broking/chartering; ship/port agency; logistics/supply chain management and marine insurance/law companies; and port/terminal operators and regulatory authorities. With working experience and exposure, the majority of DMB holders progress to managerial positions such as supervisors and assistant managers, with a few taking on higher responsibilities as managers.

Estimated starting salary: S\$2000

FURTHER STUDIES

You can gain direct entry into relevant BSc (Hons) programmes in Shipping Management, Maritime Business and Logistics conducted by reputable tertiary institutions from Australia, United Kingdom and the United States. You may also pursue business programmes at NUS or NTU.

With our strong collaboration with foreign universities, you may gain direct entry into a number of maritime programmes offered by overseas universities such as into the third-year of a four-year programme at Chung-Ang University in South Korea or the State University of New York (SUNY) Maritime College in the United States for graduates who obtain more than 3.0 GPA. They may also gain direct entry into the third final year of the Plymouth University in the United Kingdom maritime degree programme.

DIPLOMA IN NAUTICAL STUDIES

(DNS-DAE)



“Today, more than ever, seafaring is a job that demands highly trained and qualified personnel. Modern ships are designed and built to the highest technical standards and require crew members with a high level of professional competence. To operate them safely and efficiently is a stimulating job in a truly hi-tech workplace. But more than that, a successful seafaring career also holds the promise of a rewarding career ashore, after retiring from the sea.” Mr. Kitack Lim, International Maritime Organisation, Secretary-General.

The job prospects are wonderful for self-motivated, independent and adventurous young people who love a sea career. It's a direct fast track to becoming a ship's captain.



COURSE HIGHLIGHTS

- A double award programme that awards you both a diploma and the internationally recognised professional Class 3 Certificate of Competency (CoC) qualification that allows you to sail as a certified sea-going officer worldwide
- Attractive incentives and pay-out offered by the Maritime and Port Authority of Singapore on completion of internship and attaining your Class 3 CoC
- An extensive programme that prepares you to be versatile, equipping you with competencies to sail in any type of ship of any size worldwide
- A 12-month sea training phase which gives you first-hand experience in working on board a vessel
- Attractive salaries and great career advancement prospects - a junior officer's salary starts at \$3,000



ENTRY REQUIREMENTS

Aggregate Type: ELR2B2-C

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Any two other subjects	1 - 6

Note: To be eligible for admission, you must also have sat for one of the following subjects:

- Biology
- Biotechnology
- Chemistry
- Computer Studies
- Creative 3D Animation
- Design & Technology
- Food & Nutrition
- Fundamentals of Electronics
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

- Applicants must ensure that they have good eyesight (i.e. visual acuity unaided of 6/60 in both eyes and with visual aids of 6/6 in the better eye and at least 6/9 in the other eye). Applicants must show proof of having passed the Maritime and Port Authority of Singapore (MPA) Sight Test which is conducted at the Singapore Polytechnic Optometry Centre or by General Practitioners.
- All applicants must pass the colour vision test as per The International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW).
- All applicants must be sponsored by a Singapore shipping company. Shortlisted candidates will be required to attend an interview conducted by the Singapore Maritime Academy. International students are required to find a Singapore shipping company of their choice that is prepared to offer them an internship for phase 2 of this course.

The Diploma in Nautical Studies is a three-year training programme, comprising three phases, which includes a 12-month sea service with an approved shipping company and an internationally recognised professional Class 3 CoC qualification exam.

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP.

Students will take SP101A: Education and Career Guidance 1 – Personal Development (15 hours) in their first year.

In their second or third year, students will take SP201A: Education and Career Guidance 2 – Career Development (30 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL module as an elective.



COURSE MODULES

PHASE ONE

Phase 1A

- Communications for Personal & Team Effectiveness
- Meteorology
- Principles of Navigation
- Ship Knowledge
- Science 1
- Software Applications
- General Education 1

Phase 1B

- Introduction to Navigation
- Marine Communications & Signals
- Mathematics 1
- Basic Occupational Safety & Security Training
- Collision Regulations
- General Education 2

Phase Two A

Phase 2A

- Advanced Fire Fighting
- Electronic Navigation Systems 1
- Mathematics 2
- Applied Science
- Social Innovation Project
- Basic Tanker Training
- Marine Offshore Operations

Phase Two B & Three A

During this phase, candidates undergo shipboard training with a SCTW approved Training & Assessment Record Book and follow a distance learning programme. Candidates are required to complete a total of 12 months

sea service to proceed to the Diploma in Nautical Studies Phase 3B and to enroll for the Class 3 Certificate of Competency examination.

Phase Three B

Phase 3B

- Cargo Work & ISM
- Coastal Navigation
- Electronic Navigation Systems 2
- GMDSS
- Practical Navigation
- Ship Construction & Ship Stability
- Ship Operations

CAREER OPTIONS

There are plenty of exciting career options and opportunities.

You can start off as a Junior Navigating Officer and progress to become a Ship Captain or Manager ashore. You will learn to operate some of the most advanced technologies in the maritime industry.

Age	Education	Sea Career Path	Shore Career Path
16	'O' Level • 18 mths at SP • 12 mths Sea Training • 06 mths at SP		
20	Diploma in Nautical Studies (plus International Class 3 CoC) Sea Experience (12 mths for Class 2 CoC Oral Exam) Combined Class 1&2 CoC Course	Jr officer on merchant ships or off-shore & DP vessels (S\$3,000++)	Executive in shipping port, pilot, surveying, off-shore services Further Studies
24	International Class 2 CoC Sea Experience (24 mths for Class 1 CoC Oral Exam)	Chief Officer (S\$7,500++)	Middle management in shipping, port, pilot, surveying, off-shore services
27	International Class 1 CoC	Ship Master (S\$10,000++)	

++ Tax free income plus paid leave

“My experience throughout my DNS course was an adventurous learning journey that transcended the classroom with the MEL Camp and my 12 months sea-service. It was an unique experience of discovery where I acquired new knowledge, fostered new connections both on-board and on campus. It has been a challenging yet enriching and rewarding journey that I will never forget.”

DANIEL ONG
DNS Gold Medalist, Class of 2016



FURTHER STUDIES

With a DNS diploma, you can gain direct entry into relevant degree courses overseas. If you are considering a sea career, you can pursue a degree in Bachelor of Maritime Operations offered by the Maritime Institute Willem Barentsz (The Netherlands) or a Bachelor degree in Navigation & Maritime Science offered by the University of Plymouth (UK).



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