Hello.
This is the story of SP+ Adventure

- Marine Engineering (S63)
- Maritime Business (S74)
- Nautical Studies (DAE)

With SP, it’s so possible.
Without maritime, half the world would starve and the other half would freeze! The future in the maritime industry brims with international opportunities. You get the BEST of both worlds – options to work at sea or ashore.

The Singapore Maritime Academy (SMA) is the only maritime training institution in Singapore. It offers a comprehensive range of programmes at diploma level. It also offers the entire range of professional maritime courses at the Certificate of Competency level.

The Academy offers various SMA-MaritimeONE scholarships valued between $10,000 to $38,000 through the Singapore Maritime Foundation for you to pursue full-time diploma programmes and degree courses locally at the Nanyang Technological University, and Newcastle University (through the Singapore Institute of Technology); or overseas at Plymouth University (UK), Maritime Institute Willem Barentsz (The Netherlands), Chung-Ang University (South Korea) and the State University of New York (US).
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 in collaboration with Star Cruises. 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.

Let us bring you on a maritime adventure around the globe like no other.
Diploma in Marine Engineering (DMR – S63)

The Diploma in Marine Engineering (DMR) course encompasses various engineering disciplines (mechanical engineering, electrical and electronic engineering, engineering design and control technology) that is required to make a ship an independent power plant.

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 second year.
Scholarships available

- Tripartite Maritime Scholarship Scheme (TMSS)
- Association of Marine Industries (ASMI)

Entry requirements

Aggregate Type: ELR2B2-C

<table>
<thead>
<tr>
<th>Subject</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) English Language</td>
<td>1 - 7</td>
</tr>
<tr>
<td>b) Mathematics (Elementary/Additional)</td>
<td>1 - 6</td>
</tr>
<tr>
<td>c) One of the following 3rd relevant subjects:</td>
<td>1 - 6</td>
</tr>
<tr>
<td>- Biology</td>
<td></td>
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<tr>
<td>- Chemistry</td>
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<tr>
<td>- Design &amp; Technology</td>
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<tr>
<td>- Fundamentals of Electronics</td>
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<tr>
<td>- Physics</td>
<td></td>
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<tr>
<td>- Science (Chemistry, Biology)</td>
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<td>- Science (Physics, Biology)</td>
<td></td>
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<tr>
<td>- Science (Physics, Chemistry)</td>
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</tbody>
</table>

Applicants must not suffer from colour appreciation deficiency.

Our USPs

- Multi-disciplinary studies of engineering technology
- Comprehensive learning experience through hands-on training, enrichment talks, ship visits and industry exposure
- Best of both worlds - the opportunity to opt for either the Shipboard Operation option or Offshore Technology option
The Diploma in Marine Engineering is a three-year full-time programme that includes a six-week Industrial Training Programme with an approved establishment.

### Course Modules

#### First Year
- Applied Mechanics
- Basic Mathematics
- Basic Safety Training
- Basic Thermodynamics
- Electric Circuits
- Engineering Drawing
- Engineering Mathematics 1
- Marine Engineering Knowledge 1
- Workshop Practice 1
- Workshop Practice 2
- General Education 1
- General Education 2

#### Second Year
- Applied Thermodynamics
- Communication Skills for Work
- Computer-Aided Drafting
- Electronics
- Engineering Mechanics
- Industrial Training Programme
- Instrumentation
- Integrated Workshop Practice
- Marine Engineering Knowledge 2
- Naval Architecture 1
- Report Writing and Presentation
- Tanker Familiarisation
- Social Innovation Project
- General Education 3

#### Third Year
- Advanced Marine Engineering Simulation*
- Auxiliary Machinery
- Electric Machines & Systems
- Engineering Design
- Engineering Mathematics 2
- IC Engines & Boilers
- Integrated Control
- Marine Dynamics and Hydrodynamics*
- Marine Workshop Practice
- Naval Architecture 2
- Offshore Technology+
- Programmable Logic Controllers*
- Project Work
- Shipboard Drawings*
- Software Application for Naval Architecture*

* Modules under Shipboard Operation Option
+ Modules under Offshore Technology Option
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.

### 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).

DMR graduates can also opt to pursue a Bachelor of Maritime Operations offered by the Maritime Institute Willem Barentsz (The Netherlands), while at sea.

<table>
<thead>
<tr>
<th>Age</th>
<th>Sea Salary</th>
<th>Your Future</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td></td>
<td>Diploma in Marine Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18 months Sea Training</td>
</tr>
<tr>
<td>22+</td>
<td>S$3,000++</td>
<td>Junior Engineer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18 months Sea Training</td>
</tr>
<tr>
<td>26</td>
<td>S$7,500++</td>
<td>Second Engineer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Internationally recognised Professional Qualification</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18 months Sea Training</td>
</tr>
<tr>
<td>29</td>
<td>S$10,000++</td>
<td>Chief Engineer</td>
</tr>
</tbody>
</table>

You can apply your knowledge to a wide-ranging field of engineering technologies.
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.
Entry requirements

Subject | Grade
---|---
a) English Language | 1 - 7
b) Mathematics (Elementary/Additional) | 1 - 6
c) Any two other subjects | 1 - 6

Note:
*To be eligible for admission, you must also have sat for one of the following subjects:
- Biology
- Chemistry
- Computer Studies
- Creative 3D Animation
- Design & Technology
- Food & Nutrition
- Fundamentals of Electronics
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)
The Diploma in Maritime Business is a three-year full-time programme and includes a six-month Internship Programme with an approved establishment.

### Course Modules

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
</table>
| - Bunkering Practices  
- Effective Communication  
- Financial Accounting in Shipping  
- Fundamentals of Commercial Shipping | - 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  
- General Education 2 |
| - Communication Skills for Work  
- Financial Management in Shipping  
- Internship Programme (six-months) | - Law of Carriage of Goods by Sea  
- Port Agency  
- Port Management | - Statistics for Shipping Business II  
- Social Innovation Project  
- General Education 3 |
| - Electronic Commerce  
- HSSE Management  
- Marine Insurance  
- Maritime Law | - Maritime Offshore Operations  
- Marketing of Shipping Services  
- Project  
- Ship Broking and Chartering | - Ship Management  
- Supply Chain Management  
- Teamwork & Communication Skills |
With this diploma, you are ready for a variety of career options and opportunities in companies from shipping and logistics sectors such as ship management, logistics, ship owning, ship brokering, ship agency, freight forwarding, and marine insurance firms; and the Maritime and Port Authority of Singapore.

Bright Future

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 or a maritime-related degree programme offered by the Maritime Institute Willem Barentsz (The Netherlands).

Further Studies

The lecturers are inspirational. They bring to the classroom many sea-going experiences from all over the world. Their experiences and stories are priceless and opened my eyes to look beyond my horizon.

Rugdella Rugdee, class of 2011, currently working as a Yacht Sales Executive at Simpson Marine (SEA) Pte Ltd

With our strong collaboration with foreign universities, you can gain direct entry into a number of maritime programmes offered by overseas universities. Graduates who obtain more than 3.0 GPA may gain direct entry into the third year of the Plymouth University (UK) maritime degree programme; or direct entry 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 (US).
“We all know that about 90% of the world’s trade is carried by the international shipping industry. Without shipping, half the world would starve and the other half would freeze!” said Mr Koji Sekimiza, International Maritime Organisation.

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.
Our USPs

- 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
- 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 ship placement during the second phase training 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

Scholarships available

- Tripartite Maritime Scholarship Scheme (TMSS)
- Students sit through a selection interview where shipping companies offer suitable students attractive sponsorship packages.

Entry requirements

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Note:
- To be eligible for admission, you must also have sat for one of the following subjects:
  - Biology
  - Chemistry
  - Computer Studies
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  - 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 also not suffer from colour appreciation deficiency. Any offer of admission will be conditional upon applicants showing 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.
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.

### Phase One
- **Phase 1A**
  - Communication Skills for Work
  - Meteorology
  - Principles of Navigation
  - Ship Knowledge
  - Science 1
  - Software Applications
  - General Education 1

- **Phase 1B**
  - Basic Safety Training
  - Introduction to Navigation
  - Marine Communications & Radar
  - Mathematics 1
  - Tanker Familiarization
  - General Education 2

### Phase Two A
- **Phase 2A**
  - Advanced Fire Fighting
  - Collision Regulations
  - Electronic Navigation Systems 1
  - Mathematics 2

- **Phase 2B & Three A**
  - Offshore Operations
  - Science 2
  - Social Innovation Project

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 enrol for the Class 3 Certificate of Competency examination.

### Phase Three B
- **Phase 3B**
  - Cargo Work & ISM
  - Coastal Navigation
  - Electronic Navigation Systems 2
  - GMDSS

- **Phase Three B**
  - Practical Navigation
  - Ship Construction & Ship Stability
  - Ship Operations
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.

### Further Studies

With a DNS diploma, you can gain direct entry into relevant degree courses overseas. If you are considering a shore-based career, you can pursue a degree in Bachelor of Maritime Operations offered by the Maritime Institute Willem Barentsz (The Netherlands).

<table>
<thead>
<tr>
<th>Age</th>
<th>Education</th>
<th>Sea Career Path</th>
<th>Shore Career Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>'O' Level • 18 mths at SP • 12 mths Sea Training • 66 mths at SP</td>
<td>Jr officer on merchant ships or off-shore &amp; DP vessels ($3,000++)</td>
<td>Executive in shipping port, pilot, surveying, off-shore services Further Studies</td>
</tr>
<tr>
<td>20</td>
<td>Diploma in Nautical Studies (plus International Class 3 CoC) • Sea Experience (12 mths for Class 2 CoC Oral Exam) • Combined Class 1&amp;2 CoC Course</td>
<td>Chief Officer ($7,500++)</td>
<td>Middle management in shipping port, pilot, surveying, off-shore services</td>
</tr>
<tr>
<td>24</td>
<td>International Class 2 CoC • Sea Experience (24 mths for Class 1 CoC Oral Exam)</td>
<td>Ship Master ($10,000++)</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>International Class 1 CoC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
For further information regarding entry requirements, courses and careers please contact:

**Singapore Maritime Academy**

**Tel:** (65) 6772-1316  
**Fax:** (65) 6772-1958  
**Email:** sma@sp.edu.sg  
**Website:** [http://www.sp.edu.sg/schools/sma](http://www.sp.edu.sg/schools/sma)

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**Singapore Polytechnic**  
500 Dover Road  
Singapore 139651

The Polytechnic reserves the right to alter the information in this publication. Information is correct as at 1 February 2013.