

## CAREERS IN THE MARITIME INDUSTRY

The Maritime industry is associated with activities on all vessels used at sea and associated land-based services. Routes include oceans, coasts, seas, lakes, rivers and channels.

The Maritime field offers a wide choice of career opportunities, many of which are international by nature. The following is an indication of maritime careers but not limited to:

1. **Marine and Ship Engineers** –involved with the maintenance of the engine of a ship; responsible for all engineering related needs of a ship. The Cape Peninsula University of Technology and The Durban Institute of Technology offer all required marine engineering subjects at a tertiary level.
2. **Crewmember** – career can lead from a deck officer to Captain.
3. **Deck officers** – required to navigate the ship safely and efficiently.
4. **Maritime Law** – Maritime and fisheries lawyers are concerned with the branch of law that governs international maritime zones and maritime resources. The international law of the sea and the network of conventions that governs navigation, fishing, seabed mining, naval warfare and marine pollution are within the sphere of interest of maritime lawyers.
5. **Tug Masters** – Captains of tugs are responsible for ships towing other vessels/barges when they are in trouble at sea. They also give guidance to salvage (rescue) work.
6. **Marine Pilots** – guide ships when entering the harbour/port, as the Master of the ship may not be well versed with the geography of the port.
7. **Harbour Masters** –responsible for the overall control of the Port – all activities including lighthouses. Vessel trafficking systems, etc.
8. **Ship surveyors** – conduct inspections and surveys of vessels; checking safety standards and condition of equipment. They carry out these surveys for government, e.g. SAMSA, DoT Agency, for classification societies, cargo owners or underwriters (insurance companies).
9. **Maritime Environmentalist (Sea Pollution)** –are involved in Management of the environment. Marine biologist and oceanographers look at the prevention of oil spills from ships, check for engine leaks, and how it can be prevented. They endeavour to combat pollution, clean-ups and decide what dispersants could be used and which species are highly vulnerable. They also do risk assessments especially for blast water management in addition they could also do testing and approval of treatment systems and ensure the availability of reception facilities.

## SHIPPING VS ECONOMY

### **SHIPPING AS A REVENUE GENERATOR FOR THE ECONOMY**

Indian shipping sector plays an important role in India's economy. In fact, transport, trade and economic development are mutually supportive. The overwhelming share of shipping in the carriage is about 95 per cent in terms of volume and almost two thirds of the total value of international trade. This establishes its predominance and importance as an international mode of transport.

The importance of shipping, over the period, has also increased due to the technological developments in transport. Especially since the advent of containerization culminating in multimodal transportation, majority of the containers move by this mode of transport.

India's national flagships provide an essential means of transport for the import of crude oil, petroleum products, coal and fertilisers, export of iron ore and exports and imports of various general (liner) cargoes. National shipping also provides for a second line of defence in times of emergency – merchant ships help in transporting supplies, men and material for the navy. Indian shipping makes significant contributions to the foreign exchange earnings of the country as well.

Thus we can see the vital role played by shipping industry in expanding the growth of overseas trade, and is also a direct earner and saver of foreign exchange. Shipping is a valuable invisible export or foreign exchange earner for any country. Without shipping the import and export of goods on the scale necessary for the modern world would not be possible.

Recognising the role of the shipping industry in the context of overall growth strategy, in general, and the promotion of trade and foreign exchange earnings, in particular, the Indian government has made several amendments to the Merchant Shipping Act to encourage the modernisation and diversification of this industry.

Since the 1990s, the government has simplified the regulatory procedures for raising resources from commercial markets and external borrowing in order to facilitate the acquisition of new and second hand vessels at competitive prices. The shipping companies are now allowed to retain sales proceeds of their ships abroad and utilise them for fresh acquisition.

Government approval is no longer required for raising foreign exchange loans from abroad by mortgaging the vessels with the lender. The government has also granted automatic approval for foreign direct investment up to a limit of 74 per cent and non-resident Indians (NRIs) are permitted

to invest up to 100 per cent with full repatriation benefits. While challenges exist, with proper regulation India's potential as an international maritime service provider can be exploited.

The shipping sector is so global in nature that it will continue to be a foreign exchange revenue generator in the years to come.

## Career in Merchant Navy

The opportunity to travel around the world and the lure of adventure on the high seas, besides the possibility of high remunerations attracts many youngsters to make a career in the Merchant Navy. **Merchant Navy is different from the navy** in the sense that it offers **commercial services**, as opposed to the navy, which is largely involved in the defence of a nation.

Merchant Navy is the backbone of international trade, carrying cargo all over the world. The merchant ships employ a huge number of workers to carry and deliver goods from one country to another. Without the merchant navy, much of the import-export business would come to a grinding halt!

### Eligibility Criteria

- The eligibility for joining merchant navy is finishing **class 12 with Physics, Chemistry and Mathematics**.
- Candidates have to be **unmarried** Indian citizens (male or female).
- Normal vision is required but glasses up to plus or minus 2.5 may be allowed.
- Admission is through an **entrance** followed by a screening test and a main written examination.
- After clearing the test, there is an **interview** and a **medical** test.
- You also need to complete a **ship-training course** prior to the employment. The course is generally short-term where the candidates are taught basic security concerns of voyaging.

There are some private institutes, which offer training for merchant navy as well. These institutes prepare students for jobs such as deck cadets and marine engineering jobs.

### How to Join Merchant Navy After 12th

After class 12, you are eligible to study the following merchant navy courses:

- B.Sc. Nautical Science
- B.E. Marine Engineering
- B.E. Naval Architecture and Offshore Engineering
- B.E. Petroleum Engineering
- B.E. Mechanical Engineering
- B.E. Harbour & Ocean Engineering
- B.E. Civil Engineering
- B.E. Electrical & Electronics Engineering
- B.Sc. Marine Catering
- Electro Technical Officer Course

### How to Join Merchant Navy After 10th

Merchant navy courses that you can pursue after 10th include:

- Near Coastal Voyage (NCV)
- Diploma in Nautical Science (DNS)
- Commercial Diving
- G.P. Rating

## Merchant Navy – Job Prospects

- Deck officer (navigation officer)
- Electro-technical officer (ETO)
- Engineer
- Ratings – ratings are skilled seafarers who help all the officers with daily tasks
- Catering & hospitality crew (purser, stewards, chef, housekeeper etc.)

### Merchant Navy – Pay Package

In Merchant Navy, the salary can range from anywhere between **Rs.12000 to Rs.8 lakhs per month** though the pay structure differ from company to company, city to city, the export-import needs, seniority etc. All crew members and officers are given free meals on board and senior officers can take along their wives for the voyage.

A **Junior Engineer** on a ship can earn around **Rs. 30,000 per month** with free boarding and lodging while signed on board the vessel. The next level is of **Second Engineer** and finally, **Chief Engineer** on a ship. As you keep getting promoted, your salary increases substantially. A Chief Engineer at sea earns **Rs. 1.5 lakhs per month** or more net of taxes. It takes about 6-7 years for a Junior Engineer Officer to get promoted to the rank of Chief Engineer, depending on individual capabilities and job opportunities available.

A **Third Officer's salary** is around **Rs. 50,000 per month** plus free boarding and lodging while on board. Next levels in increasing order of seniority are **Second Officer**, a **Chief Officer** and **Captain** of a ship. A Captain's pay package is **Rs. 2 lakhs per month** or more net of taxes. It takes about 8 years for a Third Officer to get promoted to the rank of Captain, depending on individual capabilities and the job opportunities available.

Besides this, imported liquor, cigarettes, canned foods, cosmetics are available on board duty free. They are also entitled to four month leave every year. The interesting fact is that there is no income tax return imposed on the earnings of a merchant navy professional.

Life in merchant navy can be adventurous for all those with wanderlust. The long periods of solitude notwithstanding, the opportunity to see the world and get paid while doing so, just cannot be argued with.

### Merchant Navy Institutes

Indian institutes approved by the Directorate General of Shipping is an attached office of the Ministry of Shipping, Govt. of India and offering courses in merchant navy are:

1	C.V. Raman College of Engineering	Bhubaneswar
2	AMET University	Chennai
3	Balaji Seamen Training Institute	Chennai
4	Chennai School of Ship Management	Chennai
5	Chidambaram Institute of Maritime Technology	Chennai
6	CMC Maritime Academy	Chennai
7	Cosmopolitan Technology of Maritime	Chennai
8	Hindustan Institute Of Maritime Training Post Sea Training Centre	Kilpauk, Chennai
9	HIMT College Hindustan Institute Of Maritime Training Pre-Sea Training Centre	Kalpakkam (Chennai)
10	School of Seamanship and Nautical Technology	Kancheepuram(Tamil Nadu)
11	GKM College of Engineering & Technology	Chennai
12	GKM Institute of Marine Sciences & Technology	Chennai
13	Indian Maritime College	Chennai
14	Indus Seafarers Training Academy	Chennai
15	International Maritime Academy	Chennai
16	Maritime Foundation	Chennai
17	MASSA Maritime Academy	Chennai
18	Indian Maritime University (National Maritime Academy)	Chennai
19	Perunthalaivar Kamarajar Institute of Maritime Science & Engineering	Chidambaram
20	S.B.Vignesh Marine Training Centre	Chennai

21	Southern Academy of Maritime Studies	Chennai
22	School of Maritime Studies (Vels University)	Chennai
23	School of Maritime Studies (Vels University)	Chennai
24	Coimbatore Marine College	Coimbatore
25	Park Maritime Academy	Coimbatore
26	SeaSkills Maritime Academy	Coimbatore
27	Marine Training Academy	Daman
28	Centre for Maritime Education and Training	Dehradun
29	Mumbai Maritime Training Institute	Dehradun
30	Oceanic Maritime Academy	Dehradun
31	Agnel Maritime Academy	Goa
32	Francon's Marine Academy	Goa
33	Institute of Maritime Studies	Goa
34	Institute of Petroleum Safety, Health & Environment Management	Goa
35	NUSI Maritime Academy	Goa
36	Seascan Marine Services Pvt Ltd	Goa
37	Natcom Education & Research Foundation	Gurgaon
38	Haldia Institute of Maritime Studies & Research	Haldia
39	Anglo Eastern Maritime Academy	Karjat
40	Indian Maritime University (Kandla Campus)	New Kandla
41	Amer Maritime Training Academy	Kanpur
42	Noorul Islam University	Kanyakumari (Tamilnadu)
43	U. V. Patel College of Engineering	Kharva (North Gujarat)
44	MMTI's Education & Research Trust	Khopoli
45	Mohammed Sathak Engineering College	Kilakarai(Tamilnadu)
46	Cochin Shipyard Limited	Kochi
47	Euro Tech Maritime Academy	Kochi
48	Institute of Marine Engineers (India)	Kochi
49	Indian Maritime University (National Maritime Academy)	Kochi
50	Kunjali Marakkar School of Marine Engineering of Cochin University of Science and Technology.	Kochi
51	Univan Maritime Training Academy	Kochi
52	College of Maritime Studies & Research	Kolkata
53	Garden Reach Ship Builders & Engineers Ltd	Kolkata

54	Indian Maritime University, Kolkata Campus [Indian Institute of Port Management]	Kolkata
55	Kolkata Port Trust	Kolkata
56	Marine Education Charitable Trust	Kolkata
57	Indian Maritime University (MERI)	Kolkata
58	Maritime Academy of India	Kolkata
59	Mercantile Marine Academy Foundation	Kolkata
60	S.E.I. Education Trust	Kolkata
61	Seacom Marine College	Kolkata
62	Sensea Maritime Academy	Kolkata
63	Centre for Maritime Education & Training	Lucknow
64	Subbalakshmi Lakshmiathy College of Science	Madurai
65	RL Institute of Nautical Science	Madurai
66	Mangalore Marine College and Technology	Mangalore
67	J. Sons Merchant Navy Institute	Meerut
68	Anglo Eastern Maritime Training Centre	Mumbai
69	Arya Marine Academy	Mumbai
70	Bonzer Academy of Maritime Studies	Mumbai
71	Don Bosco Normar Maritime Academy	Mumbai
72	Gurship Education Trust Maritime Training Institute	Mumbai
73	Indian Register of Shipping	Mumbai
74	Institute of Marine Engineers (India)	Navi Mumbai
75	International Marine Academy	Mumbai
76	International Maritime Training Centre	Mumbai
77	Indian Maritime University (LBS College of AMS)	Mumbai
78	Mangalore Marine College (MMC) [Mumbai Campus]	Mumbai
79	Indian Maritime University (MERI)	Mumbai
80	Marine Medical Clinic	Mumbai
81	Marine Training Academy	Mumbai
82	Maritime Training Institute	Mumbai
83	Mumbai Maritime Training Institute	Mumbai
84	Mazagon Dock Limited.	Mumbai
85	Naval Maritime Academy West	Mumbai
86	OERC Academy	Mumbai
87	Samundra Institute of Maritime Studies	Mumbai

88	Seafarers Marine Institute	Mumbai
89	School of Synergic Studies	Mumbai
90	SCMS Maritime Training Institute	Mumbai
91	St. Xavier's Technical Institute	Mumbai
92	Suraksha Marine	Mumbai
93	Tolani Maritime Institute	Mumbai
94	TS Rahaman	Mumbai
95	Univan Maritime Training Academy	Mumbai
96	ABS Industrial Verification (India) Pvt. Ltd.	Navi Mumbai
97	Fleet Management Training Institute	Navi Mumbai
98	BP Marine Academy	Navi Mumbai
99	MASSA Maritime Academy	Navi Mumbai
100	Pentagon Maritime Training & Research Institute	Navi Mumbai
101	Ramana Academy of Maritime Studies	Navi Mumbai
102	Sagar Gyan Academy	Navi Mumbai
103	Setrac College of Offshore Training	Navi Mumbai
104	SNS Maritime Training Institute	Navi Mumbai
105	Indian Maritime University (TS Chanakya)	Navi Mumbai
106	United Marine Academy	Navi Mumbai
107	Yak Management & Marine Education Centre	Navi Mumbai
108	Yak Educational Trust	Navi Mumbai
109	Applied Research International	New Delhi
110	Anglo Eastern Maritime Training Centre	New Delhi
111	Aquatech Institute of Maritime Studies	New Delhi
112	Fosma Maritime Institute and Research Organization	New Delhi
113	Oceans XV Educational Trust	New Delhi
114	Sriram Institute of Marine Studies	New Delhi
115	International Maritime Institute Ltd	Noida
116	Orissa Maritime Academy	Paradip
117	National Inland Navigation Institute	Patna
118	Institute of Marine Education & Research Pvt Ltd	Patna
119	Neotia Institute of Technology, Management and Science	24-Pargans(S) (W.Bengal)
120	Maritime Education Training & Research Institute	24-Pargans(S)(W.Bengal)
121	Trident College of Marine Technology	24-Pargans(S)(W.Bengal)

122	School of Higher Academic and Professional Education	Panchkula (Harayana)
123	Indian Maritime University [Karaikal Campus]	Pundechery
124	Pondicherry Maritime Academy	Puducherry
125	Sri Chakra Maritime College	Puducherry
126	Marine Officers Training Academy	Pondicherry
127	RVS College of Maritime Science and Engineering	Pondicherry
128	Sai Ram Shipping Science Institute	Pondicherry
129	Dr. B.R. Ambedkar Govt. Polytechnique	Port Blair
130	Great Eastern Institute of Maritime Studies	Pune
131	Maharashtra Academy of Naval Education & Training	Pune
132	Samundra Institute of Maritime Studies	Pune
133	Tolani Maritime Institute	Pune
134	Vishwakarma Maritime Institute	Pune
135	Commander Ali's Academy of Merchant Navy	Secunderabad
136	Srivenkateshwara College of Engineering	Sriperumbadur (Tamilnadu)
137	Columbus Maritime Training Institute	Thane (Maharashtra)
138	Baba Marine Institute	Thane (Maharashtra)
139	Mariner's Academy	Thane (Maharashtra)
140	Tamilnadu Maritime Academy	Thoothukudi
141	PSN College of Engineering & Technology	Tirunelveli (T.Nadu)
142	Maritime Training Institute [SCI] Tuticorin Campus	Tuticorin
143	Asha International Institute of Marine Technology	Varanasi
144	Sri Nandhanam Maritime Academy	Vellore (Tamil Nadu)
145	Praveenya Institute of Marine Engineering & Maritime Studies	Visakhapatnam (AP)
146	National Ship Design & Research Centre	Vizianagaram (AP)