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## Welcome to Aims

### VISION

Become Centre of excellence in the field of Maritime Education and Training with highest International Standards of Global World.

### MISSION

To produce a Marine Entity playing a Role Model for the Marine Industry Worldwide.

### THE INSTITUTE

Aarna Institute of Maritime Studies (AIMS) is promoted by Aarna Foundation, a public charitable trust established in 2008.

AIMS is a premier Institute established to Impart International Maritime Education and Training (MET) covering Pre- Sea, Post Sea and courses for shore based marine industry . In future it would also cover wide spectrum of courses for the technological advancement of marine community worldwide.

One of the primary objectives of the Institute is to produce trained manpower to accelerate sustained economic growth in a highly competitive global environment.

In order to face the challenges of globalization and liberalization in the field of higher education, the Institute has endowed its faculty and students with modern technologies, skills and attitudes so as to make them competent for the challenges and to enhance the quality of teaching to contribute constantly towards learning & research. It is true that conducive environment with updated technological inputs and latest information helps not only providing quality education but also to provide human touch and dedication to the cause of the nation and the society.

The Institute is situated at Village Talegoan , Near Sindhudurg Rly. Stn., PO: Oras, Tal. Malvan, Dist. Sindhudurg, Maharashtra which is in proximity to the Goa International Airport and industrial area on its vast campus with all modern educational facilities in its ambience. The Institute has its own residential facilities and dedicated transport system between Mumbai, Pune City and the Campus. The Wi-Fi enabled campus has state-of-art infrastructure equipped with world class facilities and labs.

### SPONSORING BODY

Aarna Institute of Maritime Studies (AIMS) is promoted by Aarna Foundation, a public charitable trust established in 2008 reregistered at Charity Commissioner under Bombay Public Act 1950 . The Foundation was established to create a pool of professionally qualified and skilled managers and entrepreneurs to meet the growing needs of Shipping industry. The educational programmes of the Trust are dedicated for the promotion of holistic education and academic excellence in the technical arena.

The vision of the Aarna Foundation Trust is to establish institutions of academic excellence to provide quality education which is known for the total commitment to professional education and research.

The aim of the Aarna Foundation Trust is to serve the mankind and improve the quality of life by using latest modern aids of training and imparting best education. While setting up high standards for education, the Trust thrives to meet the social responsibilities to impart free education at all levels to the needy and economically weaker section of the society so as to improve their livelihood which would in turn lead towards making the better India.

## Message From Founder President & Chairman

"Whatever action a great man performs,  
Common men follow.  
And Whatever standards he sets  
by exemplary acts, all the world pursues."  
-(Bhagavad-Gita)



I welcome you all with great pleasure to Aarna Institute of Maritime Studies (AIMS).

Students are the very foundation of the future of our nation. We at AIMS are committed in the coordinated efforts of the management, teachers, parents and the students in building the strong foundation.

India is traditionally a maritime nation and has a rich maritime heritage. History documents trade link of India had with other nations of the world from the ages of Harappan civilization. India's maritime history precedes the birth of western civilisation. The world's first tidal dock is believed to have been built at Lothal around 2300 BC during Harappan Civilisation, near the present day Mangrol harbour on the Gujarat Coast. The Rig Veda, written around 2000 BC, credits Varuna (god of water and of the celestial ocean, as per Vedic religion) with knowledge of the ocean routes commonly used by ships and describes naval expeditions using hundred oared ships to subdue other kingdoms. The maritime tradition of India is as old as our civilization and as vast as the Indian Ocean.

India has a long maritime tradition and is the 20<sup>th</sup> largest maritime country in the world. The single largest contributing factor to this glorious tradition is the presence of a strong, dedicated, efficient and reliable reservoir of officers and ratings of the Merchant Navy in India. The ever increasing demand of Indian seafarers worldwide is a testament of the quality of education and training received in India.

Hence there is a need to further upgrade our training capacity and capabilities of that India stays ahead of the other nations in this sector and is able to meet the projected global shortage of 27,000 officers by the year 2015. There is also a need to augment the share of India in the world maritime manpower fleet from the present level of around 6% to at least 20%. Further, the 29% share of Organization for Economic Cooperation and Development (OECD) countries is dwindling rapidly due to lack of interest of their youth in this career and this presents an opportunity that we should exploit to our advantage.

Our faculty of engineering is committed to creating an environment where people thrive and contribute to improving the quality of life in national and global communities as well as enhancing the wealth creation of the nation through excellence in teaching, research and service.

We inculcate in the students that acquiring knowledge and developing the capability to learn new things each day is of prime importance in one's career success.

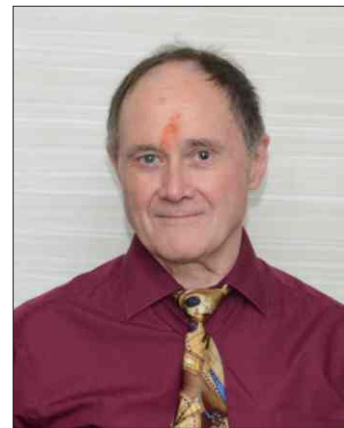
We at AIMS believe in excellence as a way of life and continuously strive to achieve greater heights in the field of technical education. An alumni of AIMS is sure to be knowledgeable confident and fully equipped to deal with the real world and excel.

Let it be my privilege to welcome you again to the world AIMS.

**Santosh Baijnath Pal**

Founder President and Chairman (AIMS)





**You can never cross  
the ocean unless you have the courage  
to lose sight of the shore.**

- Christopher Columbus

All of us-whether we know it or not and whether we like it or not are shaped by the cultural heritage from which we evolve. You, the students of AIMS belong to the younger generation, a generation soon to enter the mainstream of life. The education that you receive in this esteemed establishment will give you a special place, a place of leadership in society. Not many are privileged to have access to higher education.

India gives you your values and heritage; Foreign Education will give you the opportunities to express yourself. Not many traditional societies allow strangers to make good. you must always search for excellence. This quest is something that must guide you.

Young Indians today have perhaps better role models and examples than many other nationalities. Some twenty five million people of Indian origin live outside India. The total economic product of the global NRI community is equal to the gross domestic product of India each year.

We must learn from each other. That is why AIMS always encourages Foreign College and Universities to form Partnerships with us so that you can gain from this exchange.

AIMS is in the category of Professional Institute intended for fulfilling the requirements of the Maritime Sector. Ability to establish and develop a critical mass of activities in the maritime sector is the primary object of AIMS. All activities need not be in a single location but should be distributed across different locations in the country, which have the comparative advantages to facilitate the best possible education and training in a given area of specialization. The structure and content of the programmes leading to different levels of qualification of the personnel engaged in the maritime sector can be uniquely addressed by the AIMS unconstrained by the limitations of the general purpose universities. The up-gradation of courses, revision of syllabi, introduction of new courses, adoption of new methods of technology enabled learning, including regular class room instruction, virtual classes, distance learning etc, will be facilitated by the Institute. The regulations governing the programmes for various qualifications can be customized to meet the particular needs of the industry and the international organizations. Similarly the Institute can develop its own transparent admission policy for its programmes to cater to the profiles of the beneficiaries serving the maritime industry.

At AIMS, we invest our efforts and resources in creating the best facilities for academics, practical skill and character development of our students. We are forging our strategic tie-up with Leading British College / Universities. Since inception, we have upgraded our educational resources and training facilities to unprecedented levels. We remain committed to sustaining our efforts in developing AIMS into a world class educational institution in Konkan Region.

I invite you to take this journey towards excellence and self-fulfillment with us at AIMS. I offer you my best wishes for a glorious, rewarding career.

Ian Lennox  
Director - International Affairs

The AIMS campus is built in a rural area with neither the benefits of an urban infrastructure nor the constraints of the cityscape. This made it possible for the AIMS campus to be purpose built with infrastructural facilities that could be leveraged for the learning experience. It is the firm belief of the management that a pleasant and healthy environment is an excellent catalyst for learning and therefore no efforts have been spared in developing an aesthetic campus with every reasonable convenience.



The campus is fully wired for high performance networking in all forms. High-speed data communications take place over a fully switched network based on an optical fiber backbone with gigabyte bandwidth. Campus residents can freely access the Institute's server resources as well as the Internet from almost anywhere on the campus.

A modern digital PABX is the hub of an extensive voice network that provides direct access for off campus calls, including international calls. All users can also take advantage of the integrated voice mail system that ensures efficient communications for persons with a demanding schedule on the widespread campus.



### Academic Facilities

The Classrooms are equipped with multimedia and audio-visual equipment to facilitate effective learning and they are designed to promote maximum interaction between the faculty and the students.

Classroom learning is intense and interactive where students learn latest technologies, tools and knowledge to face the challenging, rapidly changing world. The concepts taught in class form the basis, while actual learning occurs through interaction between faculty and students. The teaching learning process is carried out through the use of overhead and LCD projectors. These help the students in understanding real world corporate situations and prepare them for the battle that lies ahead.





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**Neha Pal**  
Director  
Administration & Finance

**Learning gives creativity,  
Creativity leads to thinking,  
Thinking leads to knowledge,  
Knowledge makes you great.**

- Dr. A.P.J. Abdul Kalam



I heartily welcome you to this portal of glorious career.

At this age it is very difficult to choose right path of career without having profound insight about various fields of activity. I am truly thankful to the individuals who have guided you to choose the field of marine engineering.

Field of Marine engineering opens up ocean of opportunities to you. I consider this; as a shortest path of success. The field of Marine engineering includes every aspiration of today's youth; may be a challenge, handsome and tax free money, vacation around the world, Global and social status, satisfaction of service and so on...

AIMS is built on the foundation of loyalty and integrity to cater the needs of Marine engineering amongst the youth of India. We are committed with the responsibility of creating socially acceptable competent marine engineers to suit global requirement. We work with the vision "To be an outstanding college providing world class education and training" as our parent Institution (South tyneside college, United Kingdom) does.

We inculcate the values of; aiming to be excellent in all our endeavors and celebrate diversity and rights of others.

Wishing you a great career ahead.

**Dr. Prakash A. Hubballi**  
PRINCIPAL

**Arise! Awake!  
and stop not until  
the goal is reached.**

- Swami Vivekananda



The Institution has well equipped separate labs for teaching and research. The lab takes care of the instruction on Computer Fundamentals to all students. Students use resources of the laboratories to solve problems, perform developmental experiments and work on projects guided by faculty. By granting longer hour's lab facility and access to the network from each class room and lecture theatre, information is made easily accessible from any point within the campus. The experiments are designed to provide deeper understanding of phenomenon, facts and fabrication/assembling of equipment from components to get hands-on experience. The drudgery of repetitive measurements is reduced by shift forwards microcomputer based laboratory which allows the detailed analysis and interpretation of acquired data for our students.

### Marine Engineering Labs at AIMS

- ❖ Engineering Mechanics
- ❖ Thermodynamics
- ❖ Fluid Mechanics
- ❖ Hydraulics Machinery
- ❖ Strength of Material
- ❖ Theory of Machine
- ❖ IC Engine
- ❖ Heat and Mass Transfer
- ❖ Electrical Generators and Motors
- ❖ Electronics and Electrical Labs
- ❖ Refrigeration and Air Conditioning
- ❖ Hydraulics Trainer Etc.
- ❖ Mechanical Measurements and Metrology
- ❖ Material Technology
- ❖ Mechatronics
- ❖ Dynamics of Machinery
- ❖ CAD/CAM/CAE





## AIMS Campus at Glance

STC visit to AIMS by  
Mr. KEVIN LUND (Head of School - School of Marine Higher Education)





## STC visit to AIMS by Mr. KEVIN LUND (Head of School - School of Marine Higher Education)



## STC at Glance Welcome to Worldclass Maritime Education

### About the STC (South Shield Marine School) Marine College

#### World-class Marine and Nautical Training

We are proud to be a world-renowned centre of excellence for marine education and training. Established in 1861, we offer programmes across the whole spectrum of marine education and nautical sciences, including navigation, operations, marine and electrical engineering, communications and catering. STC College is a government sponsored college and has worldwide reputation for its high quality marine education.

STC have a renowned reputation for quality, which has been underpinned by outstanding facilities and significant annual capital investment. Here specialist teaching resources are amongst the best in the world for marine and nautical training. Our knowledgeable, professional team ensures that all your marine personnel will receive an unrivaled training experience.

**"The range of specialist maritime provision at South Shields Marine School is outstanding."** *Ofsted Inspection (October 2012)*

#### A complete Training Environment

STC caters for all levels of education and training from Deck, Engine and ET Rating, maritime apprenticeships, all officer trainee programmes through to Senior Officer Certification and up to an honour degree level. We also provide an extensive range of short courses for the marine, offshore and leisure markets.

#### COURSRES OFFERED BY STC

STC offers a wide range of maritime courses in a range of subject areas.

- ❖ THE MOST COMPREHENSIVE RANGE OF MARINE AND NAUTICAL TRAINING IN THE UK DECK AND ENGINE RATING TRAINING
- ❖ DECK AND ENGINE ABLE SEAFARER TRAINING
- ❖ OFFICER TRAINING COURSES
- ❖ CERTIFICATE OF COMPETENCY COURSES
- ❖ UNDERGRADUATE PROGRAMMES
- ❖ STANDARDS OF TRAINING, CERTIFICATION AND WATCH KEEPING (STCW) SHORT COURSES
- ❖ MARITIME SHORT COURSES (NON-STCW)
- ❖ SIMULATOR SHORT COURSES (NON-STCW)
- ❖ COMMERCIAL YACHTING COURSES OFFSHORE SAFETY COURSES: MARINE SAFETY TRAINING CENTRE (MSTC)
- ❖ CATERING SHORT COURSES (NON-STCW)

Our education and training offer is backed up by an extensive range of resources that enables South Shields Marine School to provide all your training needs within two locations at the Marine School and the Marine Safety Training Centre.

South Tyneside College has continuously invested in improving its training facilities including Marine Engine Simulation, Marine Electrical workshops, Hydraulic, Pneumatic and PLC facilities, Control labs and our extensive Marine Hazardous Areas and Marine High Voltage facilities which are fully supported by experienced professional staff.

#### South Shields Marine School has world Class Facilities which includes:

- ❖ The world's most advanced Navigational Bridge Simulators
- ❖ Visual system integrated bridge stimulator
- ❖ Realism: 3D Graphics for Vessel Models and Exercise Areas
- ❖ Dynamic Positioning Simulators
- ❖ Engine Room Simulation
- ❖ Human Element Leadership and Management (HELM) & Training Crew Resource Management Training (CRM)
- ❖ Vessel Traffic Services (VTS): Simulation Suites
- ❖ Unrivalled Marine Engineering Workshops and Laboratories
- ❖ Marine Safety Training Centre (MSTC)
- ❖ Fire Training Centre
- ❖ Renewable Energy Centre



## STC at Glance

### Welcome to Worldclass Maritime Education

#### MARINE SCHOOL ACCOMMODATION

On-campus accommodation is an integral part of the Marine School lifestyle. It gives students the opportunity to meet new people, have convenient access to classes, facilities and study groups, get involved in Marine School activities and student associations and make friendships for life.

Our purpose-built 200-bed catered Hall of Residence are situated just 50 metres from the main teaching facilities and within easy reach of public transport (bus and Tyneside Metro),

#### Student Support at STC

We do everything we can to help you succeed. We treat all our students as individuals, so we'll help and support you during your time with us in whatever way suits you best. Whether you need lots of help or a little, our outstanding support systems will help you to achieve your full potential.

Student Services is open all year round and based at the front (Main Reception) area of the College's Westoe campus.

#### Personal Tutors

When you start your course, we'll give you a personal tutor who will support you during your time with us. You can have one-to-one discussions with your tutor about any issues you have regarding your course. This provides you with a great opportunity to get feedback on your work and to discuss any problems you may have.

#### ProMonitor

Tutorial support will use ProMonitor, a web based resource you can access 24/7, either in college or at home. ProMonitor allows you to create your own learning plan, recording your hopes, fears, strengths and areas to develop. You can see your own personal 'targets' and make sure your work hits the right level.

#### Counselling

If you're having a difficult time personally or academically, our Counselling Service is here to help. All interviews are confidential and with a trained counsellor. Whatever your problem we will work with you to give you the help you need.

#### Careers and Higher Education Guidance

Whether you want to go straight into employment after college or continue your studies at university, our advisers help you with advice on the options available to you to help you achieve your career aspirations. We also have a careers library with information on employment opportunities, as well as a range of prospectuses for various universities.

#### SOUTH TYNESIDE; RIVER, SHORE AND MUCH MORE

South Shields Marine School is based on the South Tyneside coastline, epitomising the great British seaside with pristine sands, soaring cliffs, adrenaline packed amusements and delightful parks. South Shields is a traditional seaside town with golden sands and dramatic dunes.

A stone's throw from the beaches is a treasure trove of traditional seaside amusements. Thrill seekers will enjoy Ocean Beach Pleasure Park, with rides to suit all levels of bravery. South Shields seafront is the setting for an exciting range of summer events.

Enjoy live music in the amphitheater, captivating parades and open air concerts, add to this a diverse range of cafes, pubs and restaurants.

For further information go to: [www.visitsouthtyneside.co.uk](http://www.visitsouthtyneside.co.uk).

#### FIND YOUR PASSION IN NORTH EAST ENGLAND

South Tyneside is the perfect base to explore the spectacular castles, beautiful countryside and vibrant cities of the North East of England. Just on our doorstep is Newcastle and Gateshead, an intriguing mix of the modern and historic.

See the stunning Sage Gateshead, explore the Baltic Centre for Contemporary Art, walk across the Gateshead Millennium Bridge, then explore the many museums, shops, restaurants and bars the city has to offer.

Nearby destinations of Tynemouth, Whitley Bay and Sunderland are also well worth a visit. The historic attractions of Alnwick Castle & Gardens, Hadrian's Wall, Beamish and Durham City, are all just a short drive away. For more information on our great region check out [www.visitnortheastengland.com](http://www.visitnortheastengland.com) and you'll be sure to discover the passionate people and places that North East England has to offer.

## SouthTyne Side College (STC) at Glance





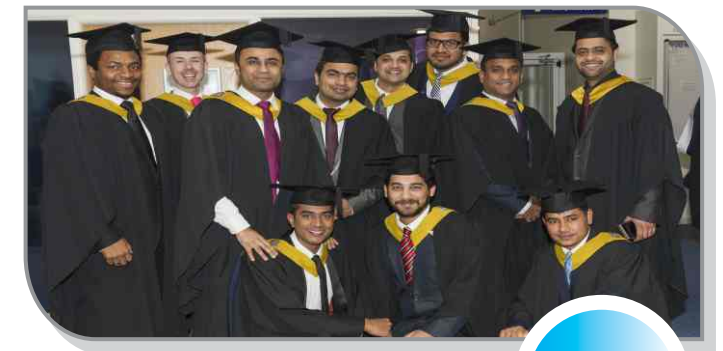




## SouthTyne Side College (STC) at Glance and Training Facilities



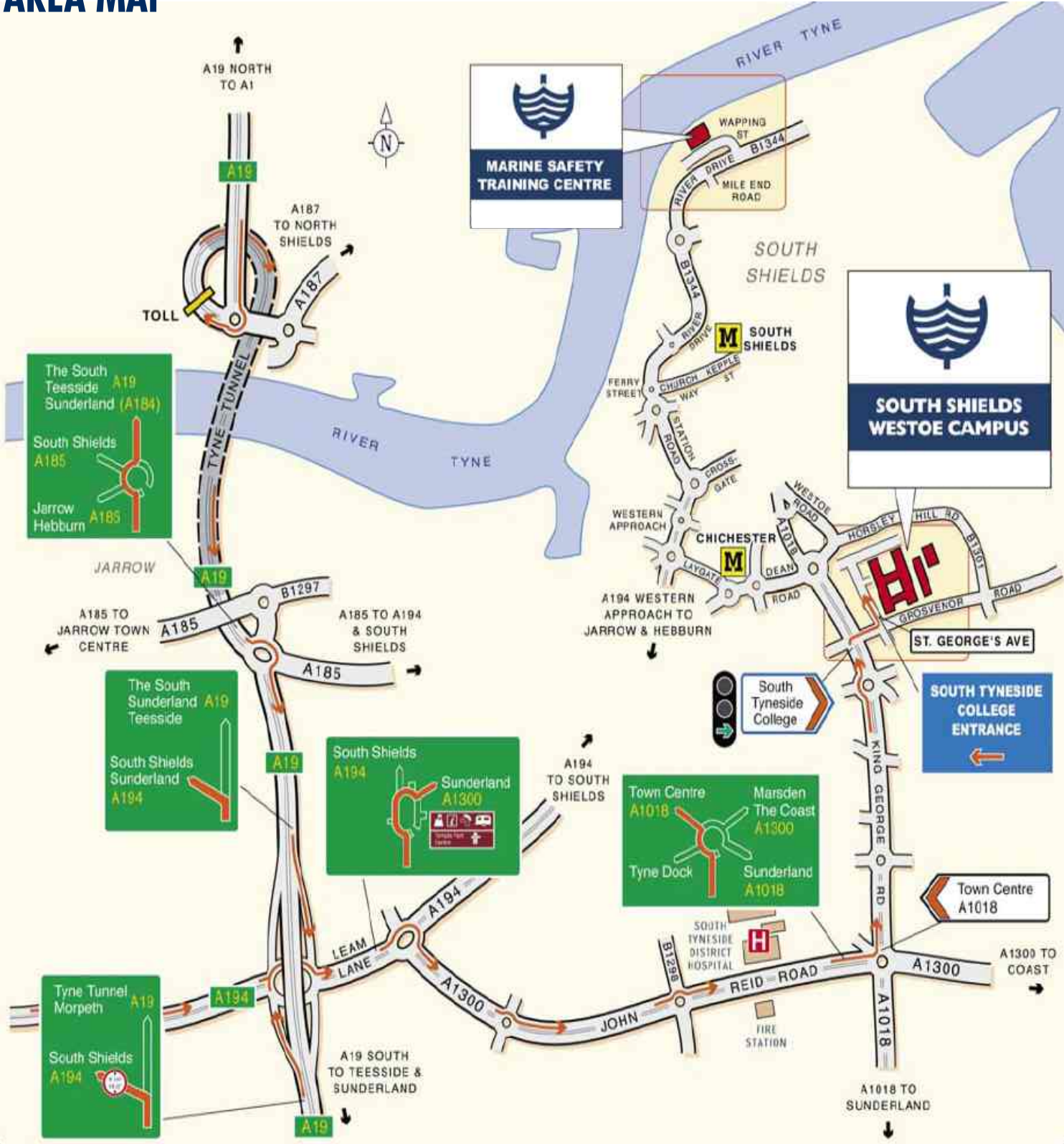
## SouthTyne Side College (STC) at Glance and Training Facilities





All sites are served by excellent trunk roads and motorways. They are within easy reach of the domestic and international airports of Newcastle and Durham Tees Valley. Rail services operate to Newcastle from London and other parts of the UK.

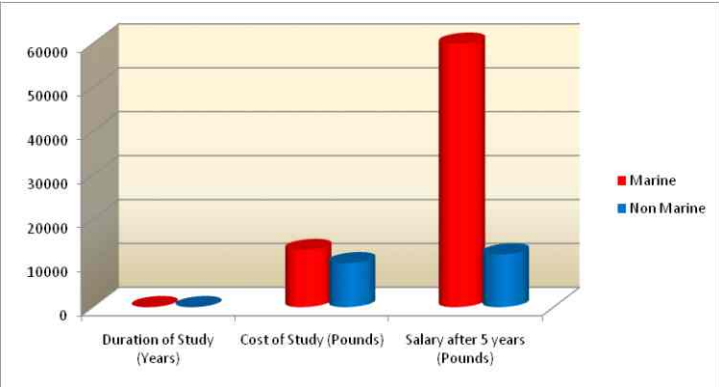
AREA MAP



Why to choose Merchant Navy as career :

- ❖ Highly rewarded in terms of Salary due to currency Exchange Rates
- ❖ Opportunity to travel and visit exotic places.
- ❖ Personal taxation Exemption on seafarers' income in India.
- ❖ Higher career prospectus as compared to salaries in other Sectors of Jobs.
- ❖ Increase in Inflation Rate of India.
- ❖ Seafarers are easily absorbed in many highly paid ashore based jobs and in India and abroad.
- ❖ Globally Recognition of their career worldwide.
- ❖ Lack of opportunities for jobs and competitions for jobs in Industry.
- ❖ High financial stability of career due to wages in Foreign Currency.
- ❖ Shipping is considered as Prestigious and Adventurous among youth.
- ❖ Growth of Ports , Shipyards and Trade across world including India

Comparative Study of Career Growth for an Indian Student in Merchant Navy



Comparison of MET IN INDIA Vs BRITISH HND MARINE ENGINEERING AND NAUTICAL SCIENCE

Maritime Education & Training (MET) in India	Maritime Education & Training (MET) in UK
<ul style="list-style-type: none"><li>❖ Courses Available: Pre- Sea for Engine and Deck Cadets</li><li>❖ Duration: 3- 4 Years</li><li>❖ Fess Charged : Approx: 8000- 11000 Sterling Pounds</li><li>❖ Further Promotions : For Captain or Chief Engineer Based on the Examination by DGS .</li><li>❖ Time: Time Consuming</li><li>❖ Average Age for becoming for Captain or Chief Engineer 30-35 Years.</li></ul>	<ul style="list-style-type: none"><li>❖ Courses Available: Pre- Sea for Engine and Deck Cadets</li><li>❖ Duration: 2 Years</li><li>❖ Fess Charged : Approx: 10000- 13000 Sterling Pounds</li><li>❖ Further Promotions : For Captain or Chief Engineer Based on the Examination by MCA</li><li>❖ Time: Structured and Less Time Consuming</li><li>❖ Average Age for becoming for Captain or Chief Engineer 27-30 Years.</li></ul>
<p><b>Disadvantages:</b></p> <ul style="list-style-type: none"><li>❖ Lacks state-of- art Infrastructure for MET</li><li>❖ More theoretical learning</li><li>❖ Duration of Pre- Sea Training is longer</li><li>❖ Less availability of sea berth in India</li><li>❖ Time consuming promotion results in loss of Income</li><li>❖ Career paths are not well identified and developed for shore based jobs</li><li>❖ Investments : By Private Parties for MET Results in Comparative poor Quality of MET</li></ul>	<p><b>Advantages:</b></p> <ul style="list-style-type: none"><li>❖ State-of- art Infrastructure for MET</li><li>❖ More Practical learning</li><li>❖ Duration of Pre- Sea Training is Shorter</li><li>❖ HND Programme together with NVQ/SVQ /MNTB - satisfies all of the MCA and IMO/STCW requirements.</li><li>❖ Faster promotion results in Higher Income</li><li>❖ Career paths have been identified and developed for shore based jobs .</li><li>❖ Investments : By UK government MET Results in Quality of MET</li></ul>

## Scope of Marine career in different sector of shipping industry

Source : **Baltic and International Maritime Council (BIMCO) / International Shipping Federation (ISF) Estimated dat**

**Demand:** Based on this evidence, the current estimate of worldwide demand for seafarers in 2015 is estimated at 1,647,500 seafarers, of which 774,000 are officers and 873,500 are ratings which will further increase because of increase in shipbuilding activities and Global Sea Trade.

## Shipping Market for Jobs.

World Marine Industry Totals in year 2005 - 2009 (EURO IN BILLIONS)



SERVICES SECTOR				2454	RESOURCES				1306
SHIPPING	1437	MARINE TOURISM	928		MARINE FISHERIES	802	ENERGY	489	
MARINE COMMENCE	29	OCEAN SURVEY	10		FISHING	250	RENEWABLE	13	
PORTS	136	SUBMARINE TELECOMS	12		AQUACULTURE	134	OIL & GAS	476	
CRUISE INDUSTRY	67				SEAWEED	33	MINERAL &	15	
					PROCESSING	385	AGGREGATES		
MANUFACTURING				541	EDUCATION & RESEARCH				54
SHIP BUILDING	155	MARINE IT	16		EDUCATION & TRAINING	8	RESEARCH & DEVELOPMENT	54	
MARINE EQUIPMENT	358	MARINE BIOTECHNOLOGY	12						

### Industry Analysis: Need for Qualified Seafarers from India

- ❖ The growth of fleets for most shipping companies in Europe, North America and other regions around the globe.
- ❖ Shipping companies have found it necessary to seek crews outside of their own countries to meet their needs.
- ❖ Growing competition in the industry, in which freight and hire rates are depressed so that margins are squeezed, pose significant concerns to ship owners who see their crewing costs rising.
- ❖ In response, many shipping companies have focused their efforts on recruiting staff in the Far East and Balkan markets where they can find well-trained personnel at a lower cost.
- ❖ Romanian, Greek, Norwegian, British, Danish, Ukrainian and Bulgarian seafarers have good skills but are in short supply.
- ❖ While Indians communicate well in English, there are very few maritime schools in India in contrast to the total population.

### Indian Maritime Industry

India is a major maritime nation by virtue of its long coast line of around 7517 Kms on the western and eastern shelves of the mainland and also along the islands, bejewelled with 13 major and 176 non-major ports, strategically located on the world's shipping routes, its long tradition of seafaring with a large pool of trained maritime personnel, and its dynamic and rapidly globalizing economy with a vast potential to expand its participation in trade and development.

India has been an emerging and vibrant economy with a huge market, a billion plus population and strong GDP growth rates of over 9% for three consecutive years up to 2008-09. However, due to the global melt-down and recession, the GDP growth slowed down to 6.7% in 2008-09. But, with global recovery under way and backed by strong decisive policy responses, the economy performed better in 2009-10 and achieved growth rate of 7.1% , it is likely to grow at 9.2% during 2010-11. As forecast made by many global institutions, India along with China will lead Asia's economic expansion from 2010 onwards.

### Maritime Policy of India 2011-2020 Highlights States:

#### FOR HUMAN RESOURCES :

1. Human Resources Development in shipping
2. The share of Officers to increase from 6.3 in 2009 to 9.0 per cent in 2020
3. Ratings to see a growth from 7.5 per cent in 2009 to 9 per cent in 2020
4. Significantly improving their quality. Expanding annual training capacity from 5,600 to 15,000 Officers and from 4,600 Ratings to 9,000 Ratings.
5. Providing adequate sea training berths

### Scenario of Maritime Education in India

Governed by : Directorate General of Shipping ( Ministry of Shipping , Govt. Of India )

Owns : 1% of Fleet of the global shipping

Supplies : More than 6% of the total seafarers to the world fleet

Current statics : 82,000 Indians seafarers working on board ships globally.

Global Vision : India will increase its manpower share to about 8-10 % by 2020.

## Present Educational Activities of Promoters of AIMS and Its Subsidiaries

### Metropolitan Institute of Technology & Management (MITM)

- ❖ MITM is an Engineering College promoted by the promoters of AIMS and is duly approved by Maharashtra State and Govt. of India.
- ❖ The B. Engg Courses offered by MITM in B.E Civil , Mechanical , EXTC , Electronics and Computer Engg.
- ❖ Present Students Strength : 1300
- ❖ MITM also offers Courses Diploma in Engineering on Civil , Mechanical Branches .
- ❖ The External Quality verification is monitored through Higher Technical Education Authorities both from State Govt. and Indian Govt.
- ❖ Indian Govt. Authority : All India Council for Technical Education (AICTE), An apex organisation for Technical Education in India in India under the aegis of Ministry of HRD , Govt. of India.
- ❖ Approved by State Govt. Authorities:
  - ❖ Directorate of Technical Education (DTE), Govt. of Maharashtra.
  - ❖ Maharashtra State Board of Technical Education (MSBTE) , Mumbai
  - ❖ Higher and Technical Education Dept. , Govt. of Maharashtra.
  - ❖ University of Mumbai, Govt. of Maharashtra.



### AIMS - LOCATIONAL ADVANTAGE - GOA

AIMS is located at 100 KM distance from GOA which is a hub for maritime activity and surrounded by Major Port and various allied Shipping industry. Students of AIMS can visit to this places to have practical exposure during their training.

### GOA IS AN INTERNATIONAL MARITIME CENTRE :

- ❖ Major port Marmagoan Port Trust (MPT)
- ❖ Goa Shipyard (Naval Shipyard)
- ❖ ABG Western Indian Shipyard Ltd.
- ❖ Goa Aeromarine & Engg. Services Pvt. Ltd
- ❖ 5 Maritime Institutes in Goa

### Maritime Facilities in Goa



### What do Trainee Officers Study During Training?

Ships' officers must be qualified in the competence standards required by the UN International Maritime Organization's STCW Convention (the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers). Seafarers are normally only permitted to work on internationally trading ships if issued with STCW certificates in either the deck, engine or electrical departments. These qualifications are recognised internationally.

In order to be issued with an STCW certificate, officers must normally complete a year or more of on board training at sea, in addition to their shore-based education and training in college. Depending on the national system, most newly qualified officers typically have between 3 and 4 years training including on board training which may occur at the end of a shore-based course or be taken at intervals between shore-based courses.

The following are some of the skills typically acquired by trainee deck officers, in accordance with international requirements :

- ❖ Managing a navigational watch (in effect taking charge of the ship at sea).
- ❖ planning a passage (using charts).
- ❖ using radar and high tech aids.
- ❖ radio communications (using maritime satellite systems).
- ❖ maneuvering the ship.
- ❖ cargo handling.
- ❖ crew management
- ❖ pollution prevention.
- ❖ firefighting.
- ❖ lifeboat use.
- ❖ medical care



Deck Officers

The following are some of the skills acquired by trainee engineer officers:

- ❖ Marine engineering;
- ❖ maintenance, repair and reassembly of shipboard engines and equipment;
- ❖ electrical engineering;
- ❖ electronic engineering;
- ❖ control engineering;
- ❖ crew management; pollution prevention;
- ❖ firefighting;
- ❖ lifeboat use;
- ❖ medical care.



Engineer Officers

### Ranks on Ships for Merchant Navy

Ships Officers generally work in two departments - Navigation (often called Deck) and Engineering and this begins when you enrol as an officer trainee! The education and training programmes for each discipline are a mixture of academic work combined with practical training, at college/university and at sea.

For each of the job roles mentioned below you will have to hold the designated seafarer Certificate of Competency, which is issued by the Maritime and Coastguard Agency(MCA), United Kingdom.

Further certificates will be gained as you increase your experience at sea and pass the required examinations.



### Shipping and World Trade

The international shipping industry is responsible for the carriage of around 90% of world trade.

Shipping is the life blood of the global economy. Without shipping, intercontinental trade, the bulk transport of raw materials, and the import/export of affordable food and manufactured goods would simply not be possible.

Ships are technically sophisticated, high value assets (larger hi-tech vessels can cost over US \$200 million to build), and the operation of merchant ships generates an estimated annual income of over half a trillion US Dollars in freight rates.

Without shipping the import and export of goods on the scale necessary for the modern world would not be possible.

Seaborne trade continues to expand, bringing benefits for consumers across the world through competitive freight costs. Thanks to the growing efficiency of shipping as a mode of transport and increased economic liberalisation, the prospects for the industry's further growth continue to be strong.

There are over 50,000 merchant ships trading internationally, transporting every kind of cargo. The world fleet is registered in over 150 nations, and manned by over a million seafarers of virtually every nationality.



Shipping and World Trade



## Different Types of Ship in the World Merchant Fleet

### Container ships

Container ship carries most of the world's manufactured goods and products, usually through scheduled liner services.



Container ships

### Bulk carriers

the work horses of the fleet, these transport raw materials such as iron ore and coal. Identifiable by the hatches raised above deck level which cover the large cargo holds.



Bulk carriers

### Tankers

transport crude oil, chemicals and petroleum products. Tankers can appear similar to bulk carriers, but the deck is flush and covered by oil pipelines and vents.



Tankers



Tankers

### Ferries & Cruise ships

Ferries usually perform short journeys for a mix of passengers, cars and commercial vehicles. Most of these ships are Ro-Ro (roll on roll off) ferries, where vehicles can drive straight on and off, making it a speedy and easily accessible way to travel.



Ferries

Demand for cruise ships expanded rapidly during the 1980s, leading to a new generation of large and luxurious 'floating hotels'.



Cruise ships

### Specialist ships

Such as anchor handling and supply vessels for the offshore oil industry, salvage tugs, ice breakers and research vessels.



Specialist ships

### Why shipping Industry will always have a exponential growth :

#### (Factors Facilitating Growth of MET (Maritime Education and Training) in Asian Region In Long Term)

- ❖ Economic Changes in the world seaborne Trade.
- ❖ Growth of Fleets worldwide for Sea Trade.
- ❖ Increase Shipping Building activities in Asia. (e.g. South Korea, China, Singapore etc.)
- ❖ Demographic change because of OECD Aging population and young and Qualified seafarers available from Asian Countries.
- ❖ Global Energy Demand for Oil , Gas , LPG and LNG for Asian Region including India.
- ❖ Environmental Issues in Shipping sector.
- ❖ Technological Advancement in Shipping sector.





**HIGHER NATIONAL DIPLOMA IN MARINE ENGINEERING**

This is fully residential Course of Duration - 2 years.

Total No. of Seats - 60

**College Phase - I (AIMS - India) - 1 year**

- ❖ One year training programme that delivers the HND Part 1 units as identified by STC
- ❖ Delivery of workshop skills training to MNTB training portfolio (480 hours)
- ❖ Preliminary sea training courses of
  - Basic fire fighting, Elementary First Aid, Marine Security
  - Basic Sea survival, Personal Safety and Social Responsibility.

**College Phase - II (STC) - 1 year**

- ❖ Assessment of HND Part 1 academic delivery at partner College.
- ❖ Delivery of the electrical and plant based MNTB Engineering workshop skills.
- ❖ Assessment of MNTB Engineering Workshop Skills.
- ❖ Formal taught programme for HND Part 2, inclusive of all assessments required

**Phase - III****Sea Phase At Sea 9 Months****Phase - IV**

- ❖ Advanced sea training courses of
  - Advanced fire fighting
  - PSC + RB (Personnel Survival Craft and Rescue Boat)
  - Medical First Aid

**Phase - V****AT STC College for 8 Weeks Study Period**

- ❖ MCA Shipboard Training Book Review (TAR).
- ❖ EOOW examination preparation module.

**Final Programme Awards**

1. Engineering Officer of the Watch (III/1) to STCW 2010 standard
2. HND in Marine Engineering awarded by Scottish Qualification Authority (SQA) United Kingdom.

**CERTIFYING AUTHORITIES**

The marine Engineering Training leading a Class IV (Officer on Watch - OOW) The Certificate of Competency is awarded by Maritime Coastguard Agency (MCA). This course is approved by Merchant Navy Training Board (MNTB), Scottish Qualification Authority (SQA) of UK.

**ENTRY REQUIREMENTS**

To apply for this course, you should meet the following entry requirements.

- Age Limit** : Preferably 17 to 25 years at the time of entry.
- Qualification** : ■ 10+2 with PCM (12th Standard) or its equivalent preferably with minimum 50% that includes aggregate in Physics, Chemistry, Maths (PCM) group in Class XII, & preferably at least 50% in English
- Or Diploma in Engineering with 50% marks (AICTE Approved)
- Or B.Sc. (PCM) with 50% marks from Recognised Universities.

**Medical Standards:** You should be physically fit for sea service under standard norms, with eye sight upto 6/12 in both eyes or 6/9 in better eye, 6/18 in other eye (i.e.  $\pm$  2.5) and with no colour blindness.

**SELECTION PROCEDURE**

We are looking for young talent blended with qualities like leadership, innovative, courageous and who desire to undertake challenging jobs and wishing to make a career in Merchant Navy.

On receipt of applicaiton form, it will be scrutinized for necessary qualification only eligible candidates shall be called for

- ❖ Written Test
- ❖ Oral Test
- ❖ Physical and Medical Test

**WRITTEN TEST**

Type of Question : Objective only

Durations : 1 Hours

Maximum Marks : 100

**\*Written Test will be conducted at Notified Exam Centres:**

■ MUMBAI ■ PATNA  
■ DELHI ■ GOA  
■ KOLKATA ■ CHANDIGARH  
■ KOTA

\*AIMS reserve the right to change or cancel any Centre without any notice.

For written Test question will be based on Physics, Chemistry, Mathematics syllabus of 10+2 Examination.

**ORAL TEST**

question will be based on Physics, Chemistry, Mathematics syllabus of 10+2 Examination. General Knowledge of shipping and General Analytical and Logical reasoning and aptitude.

**PHYSICAL AND MEDICAL TEST.**

The candidate should be Physically and medically Fit and The candidate will undergo physical fitness test from DGS approved Doctor (Medical Examination for Seafarers 2000) prior to joining the course.

**HOSTEL FACILITY**

Residential Hostel Facility will be provided to all the trainees.

**SALARY STRUCTURE**

As per International norms and MLC norms at present the approximate salaries in Merchant Navy are as under. (Subject to Change from each company).

Rank	Salary/per month (USD)	Salary / per month (Indian Rupees)
5th Engg. / Jr. Engg.	: 400 - 750	26,000 - 48,750
IV Marine Engg.	: 2400 - 3400	1,56,000 - 2,21,000
III Marine Engg.	: 3400 - 4200	2,21,000 - 2,73,000
II Marine Engg.	: 6500 - 8500	4,22,500 - 5,52,500
Chief Engineer	: 8000 - 10000	5,20,000 - 6,50,000

**(Conversion Rule 1 US \$ = Rs. 62-65)**

**HOW TO APPLY**

☞ Prospectus & Application Form is also available online on [www.aimsindia.org.in](http://www.aimsindia.org.in) by paying Rs. 1000/- (Rupees One Thousand Only) by Credit / Debit Card or through Net Banking **OR**

☞ For Prospectus & Application send a non-refundable Demand Draft in Indian Rupees of amount **Rs. 1000/- (Rupees One Thousand only)** from a Nationalised Bank in favour of **Aarna Institute of Maritime Studies payable at Mumbai** (along with D.D. of Rs. 1000/-, please do mention your name & address on the reverse side of the D.D. your academic details, address.

Hard Copy of Prospectus will be available on following address :

**Institute Campus** : Village Talegaon, Near Sindhudurg Rly. Stn., Po. Oras, Tal. Malvan, Dist. Sindhudurg, Maharashtra, India Tel. : 02362-228550

**Corporate Office** : Navi Mumbai (Vashi) : F-36, 1st Floor, Haware Fantasia, Business Park, Next to Inorbit Mall, Plot - 47, Sec-30A, Vashi, Navi Mumbai - 400 703. Maharashtra, India Ph. : +91 22 2781 4141 Mob. : 9022222526 / 9619792381



## FEE STRUCTURE

### SOUTH TYNESINE COLLEGE (STC) & AARNA INSTITUTE OF MARITIME STUDIES(AIMS)



#### FEE STRUCTURE FOR 1ST YEAR OF SQA HND MARINE ENGINEERING (AIMS)



#### PHASE- I

1st Instalment (July)	Rs. 60,000
2nd Instalment (August)	Rs. 1,00,000
3rd Instalment (October)	Rs. 1,00,000
4th Instalment (December)	Rs. 1,00,000
<b>Total (1st Year)</b>	<b>Rs. 3,60,000</b>

### FEE STRUCTURE FOR 2ND YEAR OF SQA HND MARINE ENGINEERING (STC-UK)

#### PHASE- 2

HND Part 2 (1 Year)	£ 7500	Rs. 7,50,000
Lodging & Boarding in UK	£ 3000*	Rs. 3,00,000
<b>Total</b>	<b>£ 10,500</b>	<b>Rs. 10,50,000</b>

Calculations are based on 1 Pound = Rs. 100 (Pound is international currency subject to fluctuation)

1ST YEAR AT AIMS, INDIA	Rs. 3,60,000
2ND YEAR AT STC, UK	Rs. 10,50,000
<b>TOTAL</b>	<b>Rs. 14,10,000</b>

#### PHASE - 3

(II) Sea Service - 9 Months

**Note :- Full Fees to be paid before commencement of 2nd Year at STC, UK and prior departure from India.**

- Note:-
1. Accommodation Officer at STC (UK) can also arrange local accommodation in rented locally for lower expenses approved by STC.
  2. \* Lodging & Board expenses vary from 3000 to 4000 UK Pounds depending on accommodation & fooding facility.

**N.B.:** All figures where UK pounds have been converted to Indian Currency, are only approximate because the UK pounds is subject to fluctuations in exchange rate.  
Second Year Fees are subject to change as per STC Norms from time to time.  
Bank Loans are easily available from all the Nationalised & Private Banks upto Rs. 20 - 25 lakhs for above courses

### SQA HND - MARINE ENGINEERING SYLLABUS

All cadets will study the following HND units designated as Part 1 HND

Part 1 HND Units			
Unit No.	Unit Level	Unit Title	Unit Value
1	7	Marine Engineering : Marine Heat Engine Principles	1
2	7	Marine Engineering : Auxiliary Thermodynamics Principles	1
3	7	Marine Engineering : Dynamics & Machines	1
4	7	Marine Engineering : Statics and Strength of Materials	1
5	7	Marine Engineering : Propulsion	1
6	6	Marine Engineering Mathematics	1
7	7	Marine Engineering : Naval Architecture	1
8	7	Marine Engineering : Ship Construction	1
9	7	Engineering Drawings	1
10	7	Marine Engineering : Electrical Motors and Generators	1
11	7	Marine Engineering : Auxiliary Systems	1
12	7	Fundamentals of Control Systems	1
13	7	Safety Engineering and the Environment	1
14	7	Unit graded 1 Examination	1

### AT STC UK All cadets will study the following HND units designated as Part 2 HND at UK

Part 1 HND Units			
Unit No.	Unit Level	Unit Title	Unit Value
15	8	Marine Engineering : Mathematics 2	1
16	8	Marine Engineering : Advance Statics & Dynamics	1
17	8	Marine Engineering : Advanced Strength of Material	1
18	8	Marine Engineering : Advanced Applied Mechanics	1
19	8	Marine Engineering : Advanced Thermodynamics Principles	1
20	8	Marine Engineering : Advance Marine Heat Engine Principles	1
21	8	Marine Engineering : Advanced Naval Architecture	1
22	8	Marine Engineering : Advance Ship Construction and Survey	1
23	8	Marine Engineering : Electrical Distribution System	1
24	8	Marine Engineering : Electrical Power	1
25	8	Marine Engineering : Hydraulics & Pneumatics	1
26	8	Marine Engineering : Marine Management	1
27	8	Unit graded 2 Examination	1

To successfully achieve an HND candidates must complete a minimum of 16 units including all 6 units including all 6 core units.

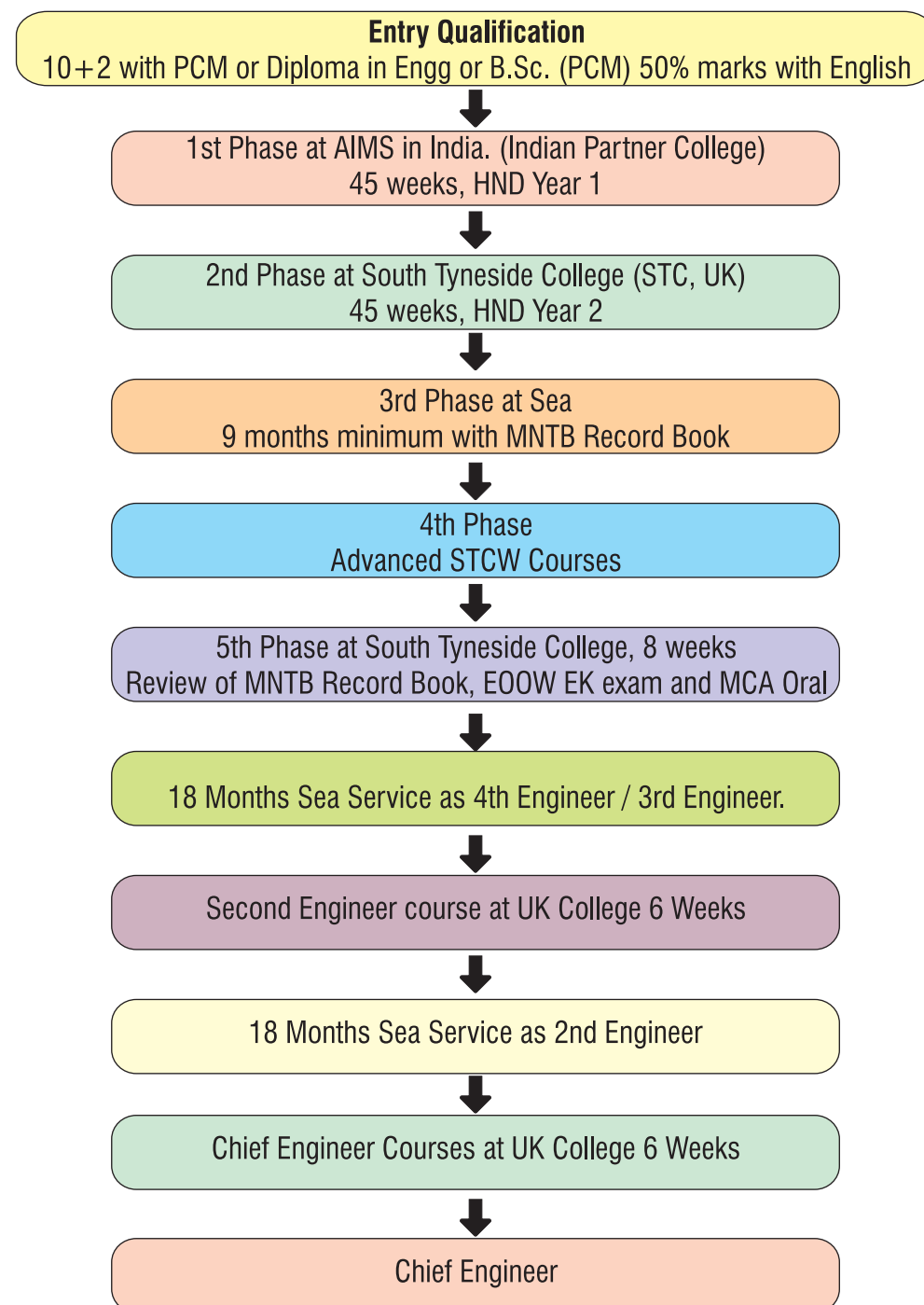


Each unit is assigned a notional level indicator of 7 or 8, indicating the relative intellectual demand, complexity and depth of study, and learner autonomy.

At 7 level the emphasis is on the application of knowledge, skills and understanding, use of conventions in the field of study, use of analytical skills and selection and organization of information.

At 8 level the emphasis is on application and evaluation of contrasting ideas, principles, theories and practices, greater specialization in the field of study, and an increasing independence in systematic enquiry and analysis.

## TRAINING SCHEME FLOWCHART (HND MARINE ENGINEERING)



## ADMISSION PROCEDURE

- ❖ Written test (objective type of 100 marks). The duration of test would be one hour.
- ❖ Oral test (interview)
- ❖ Physical and Medical test

### Total Number of Available seats at AIMS

Total Number of Available seats = 60

### Reservations of seats

Reservation of seats are as under

❖ Category A	35	Open Seat
❖ Category B	10	Defense Personnel
❖ Category C	6	Sports
❖ Category D	3	NCC Cadets (School or College level)
❖ Category E	2	Jammu & Kashmir migrants
❖ Category F	2	Sponsorship of Shipping Companies
❖ Category G	2	Ward of Seafarers

(Note : If no students are eligible for above category of reservation then these seats would be offered to open category students)

### CATEGORY A - OPEN CATEGORY

The Candidates not belonging to any of the above category will be admitted purely on 10+2 marks and the selection criteria.

### CATEGORY B - CHILDREN OF DEFENSE PERSONNEL

Seats shall be reserved for children of Defense Service Personnel and Ex-Central para Military Force Service personnel including those permanently disabled or killed in action.

For selection against these seats following conditions will apply,

1. To be eligible for such a seat, a candidate must be son / daughter of a personal who has been a member of the Armed forces of India and who has put in at least 5 years active service and has been subject to Indian Army Act, Indian Navy Act or Indian Air Force Act, and includes an ex-servicemen who retired such service or was permanently disabled / killed in action. A candidate claiming a seat under Defence category will be required to produce a certificate from an Appropriate Authority, Commandant or equivalent rank officer/ Zilla Sainik Board - certifying the same.
2. However the condition of minimum active service for five years will stand relaxed in case of a Defence Service person who has been permanently disabled or killed in action. The exception is admissible subject to production of a certificate from Zilla Sainik Board certifying permanent disability / death of such Defence Service person.

### CATEGORY C - SPORTS

Seat will be reserved for candidate representing his institution and actually participating in an inter-institutional tournament / competition organized at State / National level between the period of his passing of S.S.C. / H.S.C. (or equivalent) examination or at diploma or degree level, in any of the following games provided he is.

- a) Member of the team that participating in the tournament and won the finals.  
And / or
- b) Winners of the Championship in games where there is individual participation.

For the claim of above category a certificate must be obtained from the Director of Sports or an Officer, not below the rank of Under Secretary, Government of India, authorized to issue such a certificate.

Enumeration of games for the purpose of above category is as follows.

Athletics, Atya-Patya, Badminton, Basket-Ball, Contract Bridge, Cricket, Foot-Ball, Hockey, Hu-Tu-Tu, Kabbadi, Kho-Kho, Mountaineering, Rowing, Sailing, Shooting, Soft-ball swimming, Table-Tennis, Tennis, Volley-Ball and Water-polo.

A separate certificate for each event is necessary.

Athletics, Badminton, best Physique, Billiards, boxing, Chess, Cycling Gymnastics, Mallakhamb, Mountaineering, Squash, Swimming, Table-Tennis, Tennicoit, Tennis, Weight Lifting, Wrestling (Including Indian Free-Style, Greco-Roman Style, Judo and Karate)



CATEGORY D - NCC CADETS(SCHOOL OR COLLEGE LEVEL)

NATIONAL CADET CORPS (NCC)  
Seat will be reserved if the candidate has been a member of the NCC during the period between his passing S.S.C. (or equivalent) and H.S.S. (or equivalent) examination or at diploma or degree engineering level and is in possessing of 'B' Certificate subject to the candidate having either represented the State at all India level.

CATEGORY E - FOR JAMMU AND KASHMIR MIGRANTS

JAMMU AND KASHMIR MIGRANTS  
1. Seat is offered to the children of citizens who are displaced from Jammu and Kashmir from 1990 onwards due to terrorist activities, and also for children of officers belonging to Indian Administrative Service, Indian Police belonging to military and para military forces, transferred to Jammu and Kashmir to combat terrorist activities.  
2. The seat offered to the children of displaced citizen of officers from Jammu and Kashmir, notified under these rules shall be over and above the seats available with the Competent Authority. The seats remaining vacant in this quota will be offered to the candidates of open category.  
3. For Government Servants or persons serving in military or para military forces Certificate from the Head of organisation where they are working.  
4. Those staying in migrant or refugee camps and those who are registered with the Government as migrants shall produce certificate from Head of the office of the migrant or refugee camp.  
5. Displaced persons staying with relatives or friends anywhere in country other than in refugee camp shall produce a certificate from the District. Magistrate of the district where they are staying to the effect that the parent or guardian of the candidate is displaced citizen from Jammu and Kashmir due to disturbances from 1990-onwards.

CATEGORY F - SPONSORSHIP FROM SHIPPING COMPANIES

The candidate who are sponsored from shipping company can apply in this category.

CATEGORY G - WARD OF A SEAFARERS

If you are a ward of seafarer working in merchant Navy than you can apply this category please mention the CDC No. of your guardian. Along with name of the shipping company and rank or designation of your guardian.

Documents are required for admission procedure.

The candidates should bring following certificates in original at the time of Admission

- ❖ 10<sup>th</sup> Class Mark sheet
- ❖ 12<sup>th</sup> Class Mark sheet
- ❖ Recent Passport size Photograph 6 No.
- ❖ Applicable documents to Claim the Reservation of Seats
- ❖ (Defense personnel, sports persons , NCC cadets (School or College Level) , Jammu and Kashmir migrants , sponsorship from shipping companies, Ward of Seafarer)

Note : At the time of admission , if the candidate is not able to produce originals , then he can produce Notarized copy of this certificate with undertaking to submit Original Certificates in Time.

Mode of Selection for the Course :

- ❖ All the successful candidates meeting the eligibility criteria will be called for Written Test , Oral and Medical Test. After Qualification these test, They will be tested on the basis of their Attitude and Aptitude towards seafaring Profession, ability to communicate in English, General Comprehension and Seafaring background ( If any)
- ❖ The merit list for selection will be prepared based on marks in the above test along with marks obtained 10 + 2.
- ❖ The younger candidate will be preferred over the elder one incase of equal marks in merit list.
- ❖ After successful Qualifying these test, the candidates will be offered seats.
- ❖ The call letters would be sent to these candidates for final admission.
- ❖ The AIMS institute reserves the right to select or reject any candidate.
- ❖ The selection committee is not bound to call all the applicants for the admission process or Interview.
- ❖ Selected candidates should take the admission by paying course fess. If the candidates fail to pay fees in time, then the seat would be offered to next waitlisted candidate.

What is Merchant Navy?

Ships that carry goods, people or render services of a non military nature constitute the merchant navy.  
Merchant Navy touches every body's life in one way or other. Material for building a house may have been brought by a bulk carrier, the fuel used in your vehicle was brought by a tanker and fruits in the market from different countries were brought in a refrigerated container carried on a ship.

Why Join Merchant Navy?

- Merchant Navy is a very lucrative career, some of the many attractions of this profession are listed below:-
- High income (Tax Free)
- Independence and responsibility at a young age
- Quick promotions
- No expenses whilst on board (High class accommodation and cuisine)
- Travel around the globe and experience the world
- Adventure – No two days on the ship are the same
- Long Vacations - Time to pursue your hobbies
- Future opportunities to pursue a career ashore

Who should join Merchant Navy?

If you are adventurous person who likes to be outdoors and is not interested in a monotonous 9-5 job, then Merchant Navy is the best career option for you.

How is Merchant Navy better than any other career option?

A student who passes his/her 10+2 exams and takes up any stream for further studies spends at least another 4 years in college before becoming eligible for a job in the particular stream. Whereas a candidate who joins Merchant Navy, has to undergo only 1 year of training at an approved institute and then starts earning whilst doing the onboard training. Moreover the stipend received during the training period itself is higher than the starting salaries in many career streams ashore.  
At the age of 21 when a normal student graduates from any stream and starts looking for a job, the candidate who has joined Merchant Navy has already completed his/her training and starts working as an officer on board the ship and earns wages to the tune of more than 1 Lakh rupees per month.

Sea of Opportunity?

There are various types of ships but the main job of a ship is to transport goods or people from one place to another. Ships are responsible for transporting 96% of goods around the world and is the most important service helping to keep the wheels of the global economy moving smoothly. Shipping is a vital link in world trade and today it is one of the booming sectors of the industry. If you join the merchant navy you could choose to be a navigating officer (also known as a deck officer) or an engineering officer.

Don't you think the cost of Pre-Sea training is quite high?

You must remember that Pre-Sea training is not subsidized by the government, there are various requirements that have to be considered in order to conduct pre-sea training and the cost of carrying these out is very high and has to be borne by the institute.  
But the training cost of your pre-sea training can be recovered within 2 to 3 years of sailing career.

What is the difference between Indian Marine Engineering & UK Marine Engineering Course

The duration of Marine Engineering in India is 4 years and in UK it is 2 years. After completion of Marine Engineering either from India or UK, the cadets will join us Jr. Engineer on ship and get their promotion to Class IV Engineer rank as their first promotion on Ship, hence the cadet saves 2 valuable years and money by joining fast track HND Course. UK marine exams are structured for fast promotions and offer vast land based job opportunities also.



# Frequently Asked Questions (FAQ)

## Frequently Asked Questions (FAQ)

### What is the duration of the course?

The duration of the course is two years

### What is the structure of the course?

The duration of the course is two years. The first year will be at AIMS (India) and second year will be at STC( UK)

### Is the course residential?

The course is fully residential. Aims will provide hostel facility to all the trainees

### What is the educational qualification required?

A pass in plus two (12<sup>th</sup> standard) or its equivalent with minimum 50% aggregate in Maths, Physics and Chemistry group and minimum 50% marks in English.

### What is the medical criteria ?

All the trainees should be medically and physically fit for the sea service under standard norms, with eye sight upto 6/12 in both eyes or 6/9 in better eye, 6/18 in other eye (i.e.  $\pm$  2.5) and with no colour blindness.

### What is the maximum age limit for the course?

Age limit should be between 18-25 years.

### What is the admission procedure?

- ❖ Written test (objective type of 100 marks). The duration of test would be one hour.
- ❖ Oral test (interview)
- ❖ Physical and Medical test

### What is Total Number of Available seats at AIMS

Total Number of Available seats = 60

### Are there any reservations of seats exist?

Reservation of seats are as under

❖ Category A	35	Open Seat
❖ Category B	10	Defense Personnel
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- ❖ Recent Passport size Photograph 6 No.
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(Defense personal , sports persons , NCC cadets (School or College Level) , Jammu and Kashmir migrants , sponsorship from shipping companies, Ward of Seafarer )

Note : At the time of admission , if the candidate is not able to produce originals , then he can produce Notarized copy of this certificate with undertaking to submit Original Certificates in Time .



## Frequently Asked Questions (FAQ)

### What is mode of Selection for the Course :

All the successful candidates meeting the eligibility criteria will called for Written Test , Oral and Medical Test. After Qualification these test, They will be tested on the basis of their Attitude and Aptitude towards seafaring Profession, ability to communicate in English, General Comprehension and Seafaring background ( If any)

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### Whether the HND course is approved?

This Training will be leading a to class IV Marine Engineer officer. Certificate of Competency awarded by the Maritime Coast Guard Agency (MCA) (Department of Transport , Govt. of United Kingdom), Merchant Navy Training Board (MNTB) . The HND Qualification is awarded by Scottish Qualification Authority (SQA) HND is worldwide recognized qualification. HND qualification with UK Certificate of Competency (COC ) will enables the student to finally become Chief Marine Engineers and sail onboard Merchant Navy ships worldwide.

### Who will award HND certificate?

The HND certificate will awarded by Scottish Qualification Authority (SQA), United Kingdom.

### What is the recognition of my certificate?

HND certificate awarded by Scottish Qualification Authority (SQA), United Kingdom is recognized globally.

### What are the opportunities for higher qualification after HND?

HND Student can further upgrade their qualification for B.Engg. and M.Engg. by enrolling into any U.K. university.

### Can fees at AIMS be paid in installments?

Yes the fees can be paid in THREE installments (refer to fee structure)

### How much loan bank will grant for foreign study?

As per the present norms all nationalized and schedule banks can provide loan upto Rs. 20 lacs for foreign study.

### When to pay second year fees?

The second year fees to STC should be paid before issue **Confirmation of Acceptance for Studies (CAS) letter**. The CAS letter will be issued by STC for visa.

### Why STC?

STC is one of the 150 year old institute with state - of - art facility for maritime education and training. STC has students from over 30 countries worldwide coming to study at STC college. STC is recognized worldwide for producing best seafarers.

### How to get the education loan for HND Marine Engineering Course ?

The institute (AIMS) will provide all the documentation support for getting the education loan.

### What is the IELTS score required ?

The student will have to appear in IELTS examinations for English proficiency with minimum score of 5.5. IELTS is conducted by British Council in India.

### When I will be appear in IELTS ?

During your first year study at AIMS the institute will prepared and guide you for IELTS examinations.

## Frequently Asked Questions (FAQ)

### What are the List of documents to be taken (required) for UK Visa ?

List of documents for UK Visa are given hereunder:

- ❖ Visa Application Form (VAF9) + Appendix 8 Form (Tier 4 Student) and Guidance Notes
- ❖ Passport
- ❖ One Passport size photo (45 x 35 mm Color, less than 6 months old)
- ❖ Biometric Details
- ❖ Visa Fees of in pound (equivalent in Rupees, in D.D form)
- ❖ CAS letter from College / University ORIGINAL & Photocopy (of all docs.)
- ❖ Unconditional letter from college / University
- ❖ Receipt of fee payment towards accommodation & Tuition.
- ❖ Bank Statements ORIGINAL for the last 28 days from all sponsors
- ❖ Transcripts (Mark sheets) (from 10th class , 12<sup>th</sup> Class till the last degree obtained
- ❖ Affidavit of Support to be given by the sponsor on Rs.20 stamp paper (non-judicial)
- ❖ Work experience certificate (If any )
- ❖ Fixed Deposit Receipts (if necessary)
- ❖ Bank loan sanction letter (if necessary)

### Who will provide the Assistance for U.K. Visa?

AIMS will provide Guidance and Assistance for preparing all the documentation for U.K. Visa

### Can I Working in the UK during my Study ?

You are not allowed to work on full time but The as the United Kingdom Boarder Agency (UKBA) students allowed to work for up to 10 hours per week on Holidays.

### What Assistance will be provided for placement?

AIMS will provide Guidance and Assistance for Placement in Shipping Companies.

### What are the shore based job option for marine engineering?

Various types of shore based job options are available in marine sector, this sector includes

- |  |                                   |
|--|-----------------------------------|
| ❖ Shipyards (ship building and ship repairing yards) | ❖ Port management                 |
| ❖ Shipping companies                                 | ❖ Chartering                      |
| ❖ Ship management                                    | ❖ Oil and gas companies           |
| ❖ Port and harbor authorities                        | ❖ Offshore construction companies |
| ❖ Operation management                               | ❖ Costal authorities              |
| ❖ Terminal operation                                 | ❖ Container terminal operations   |
| ❖ Drilling companies                                 | ❖ Multi model transport companies |
| ❖ Classification Societies                           | ❖ Marine operation                |
| ❖ Research organizations                             | ❖ Stevedores                      |
| ❖ Marine environment companies                       | ❖ Warehousing management          |
| ❖ Subsea and telecom companies                       | ❖ Freight forwarding              |
| ❖ Project management                                 | ❖ Bunkering                       |
| ❖ Maritime Port authorities                          | ❖ Financial Analyst               |
| ❖ Marine insurance                                   | ❖ Maritime Lawyer                 |
| ❖ Marine surveyors                                   |                                   |

### Whom to contact for more details information ?

Student and Parents can call on Institute or whatsapp on +91 902 222 2526 / 961 979 2381

Email: [info@aimsindia.org.in](mailto:info@aimsindia.org.in) Website: [www.aimsindia.org.in](http://www.aimsindia.org.in)



1. The standing Rules and regulations of the Institute shall be binding on all students. This may be changed without prior intimation to the students.
2. Gold ornaments or other valuable items or any kind of electrical apparatus are not allowed to be kept.
3. Cadets are not allowed to keep more than about Rs. 1000/- in cash with them, Excess cash should be deposited with the cashier and can be withdrawn in lots of Rs. 1000/-.
4. Uniform is to be worn at all times during training. Very few civilian clothes are to be brought for their regular use. In case any student found not in the proper uniform during training, he has to Penalize for the day.
5. Cadets are permitted 'shore leave' in uniform only on Sundays between 07.00 and 20.00 hours.
6. Cadets are not allowed to stay out of the campus at night under any circumstances. Parents are instructed not to make any request for the same.
7. Visitors are permitted only on Sundays between 09.00 and 18.00 hours.
8. The use of tobacco and alcohol is strictly prohibited in the Institute. If the candidate is found in alcoholic condition or under drug effect, this would cause immediate rustication from the Institute. Institute's decision in this case will be final. No appeal against the decision will entertained from parents or guardians.
9. Long hair, moustaches and beards are not allowed during the period of training. Sikh candidates are exempted from this.
10. The following are prohibited in the hostel.
  - ❖ Illegal drugs
  - ❖ Gambling
  - ❖ Fire arms of any kind
  - ❖ Knives
  - ❖ Pets or livestock of any description.
11. Special area has been earmarked for Cadets to meet their guests. Guests wishing to meet the cadets are to approach the course instructor / Course Officer (during off work hours). The cadets will be informed, whilst the guest wait in the guest waiting area. Under no circumstances the guest are to proceed to the hostel rooms/ class rooms.
12. In case if the student withdrawing from the course in between the Completion period of the course, he has to pay entire amount of the concern course fees. (Either withdrawing himself or rusticated due to major offence).
13. In case of damage or loss of hostel property the cost will be recovered from the students if identified it will be individual otherwise all the student of the hostel room (Individual area) decided by the Hostel warden.
14. The use of electrical appliances such as immersion heaters, electric stove/heaters/electric iron are forbidden in any of the rooms allotted for residence. Private cooking in the hostels/student's room is strictly forbidden. Such appliances, if found will be confiscated and a fine will also be imposed.
15. When the students go out of their room they should switch off all the electrical/electronic appliances, and keep it locked (at all times). Violation will attract suitable penalty and punishment as decided by authorities.
16. Not attending classroom lectures without permission will result in Violation will attract suitable penalty and punishment as decided by authorities.
17. Disputes are subject to Mumbai jurisdiction.



Nearest Airport is GOA Airport  
(approx. 100 KM. from AIMS Campus)



MUMBAI-SIDHUDURG Approx. 450 KM.  
SIDHUDURG-GOA Approx. 100 KM.



MUMBAI - ORAS Approx. 450 KM.  
SINDHUDURG - GOA Approx. 100 KM.

### Road Map



### Konkan Railway Map



### Useful Links

- ♦ SOUTH SHIELDS MARINE SCHOOL  
[www.stc.ac.uk](http://www.stc.ac.uk)
- ♦ MARITIME COASTGUARD AGENCY (MCA)  
[www.dft.gov.uk/mca](http://www.dft.gov.uk/mca)
- ♦ SCOTTISH QUALIFICATION AUTHORITY (SQA)  
[www.sqa.org.uk](http://www.sqa.org.uk)
- ♦ MERCHANT NAVY TRAINING BOARD (MNTB)  
[www.mntb.org.uk](http://www.mntb.org.uk)
- ♦ KONKAN RAILWAY  
[www.konkanrailway.com](http://www.konkanrailway.com)





## Certificate and Approval for International Collaboration

**Maritime & Coastguard Agency**  
South Tyneside College  
St Georges Terrace  
South Shields  
Tyne & Wear  
NE34 6ET

Capt. R. Towner  
Maritime and Coastguard Agency  
Bay 2/13, Spring Place  
105 Commercial Road  
Southampton  
SO15 1EG

Tel: +44 (0)23 8032 9238  
Fax: +44 (0)23 8032 9252  
E-mail: exams@mca.gov.uk  
Ref: MC012/017/0076  
31<sup>st</sup> March 2015

To whom it may concern,

South Tyneside College (UK) officer training programme in collaboration with:  
Aarna Institute of Maritime Studies – AIMS, Sindhudurg, India.

The MCA approves the delivery of the above collaborative programme carried out, under the Quality Assurance of South Tyneside College (STC) and in accordance with the Memorandum of Understanding (MoU) between the two establishments. Further to this I can confirm that satisfactory completion of the attached training programme, incorporating a Scottish Qualification Authority (SQA) Higher National Certificate (HNC) and Higher National Diploma (HND) in Marine Engineering, meets the requirements leading to the issue of a Certificate of Competency (CoC) as Engineer Officer of the Watch (Unlimited, STCW Reg III/1) by the Maritime and Coastguard Agency (MCA), UK.

This agreement shall remain in place until 31 December 2019. CoCs issued will be STCW 2010 compliant.

If you have any queries on this matter, do not hesitate to contact the Seafarer Training and Certification branch of the MCA.

Yours faithfully,

*R. Towner*  
Capt. Roger Towner  
Registrar General of Shipping and Seamen

HM Coastguard

**South Tyneside College**  
Dedicated to your success

1<sup>st</sup> March 2015

South Tyneside College (STC), UK are pleased to form a collaborative partnership with Aarna Institute of Maritime Studies (AIMS) to provide a training programme for the qualification of Marine Engineering students.

The Higher National Diploma in Marine Engineering award will be delivered by both AIMS and STC in India and then the UK, and will prepare prospective engineering officers for a career in the Merchant Navy. Following the Higher National Diploma award, students will undertake nine months on-board a vessel, before their final assessment in the UK.

This programme is approved by the Scottish Qualifications authority, and on final graduation the student will be awarded a Certificate of Competency by the UK Maritime Authorities – the Maritime and Coastguard Agency.

These joint Indian / UK programmes have been operating since 1996, and South Tyneside College is pleased to be able to offer this career opportunity to students enrolling at the Aarna Institute of Maritime Studies.

*Gary Hindmarch*  
Gary Hindmarch  
Principal, South Shields Marine School

St George's Avenue,  
South Shields,  
Tyne and Wear,  
NE34 6ET  
Tel: 0191 427 3500  
Fax: 0191 427 3535  
Web: www.stc.ac.uk  
Email: info@stc.ac.uk

## Certificate of Approvals

**Aarna Foundation's**  
(Regd. under Bombay Public Trust Act 1950 Regd. No.: E-2210(N))  
**AARNA INSTITUTE OF MARITIME STUDIES (AIMS)**

Corp. Office: F-64, 1st Floor, Haware Fantasia,  
Business Park, Next to Inorbit Mall,  
Plot 47, Sec. 35A, Vashi,  
Near Mumbai - 400 703 (M.S.) India  
Ph: +91 22 6522 8200

Campus: Village Sukhalwad, Near Sindhudurg Rly. Stn.,  
Po. Oras, Tal. Malvan, Dist. Sindhudurg, M.S. India  
Tel: 02365-228552 Fax: 02362-228555  
Email: info@aimsindia.org in  
Website: www.aimsindia.org in

**Appendix 1: Partnership Agreement**  
**Centre Partnership Agreement**

between Aarna Institute of Maritime Studies ('AIMS')  
Village Sukhalwad, Near Sindhudurg Rly. Stn., PO: Oras, Tal: Malvan, Dist. Sindhudurg,  
Maharashtra, India  
and  
South Tyneside College (STC),  
St George's Avenue, South Shields, Tyne and Wear, NE34 6ET, United Kingdom.

**Qualification: Higher National Diploma in Marine Engineering (level 8)**

**Centre A responsibilities**  
AIMS undertakes to provide Phase 1 of the joint Programme. During Phase 1 of the Programme AIMS will provide a comprehensive training programme, which will include theory and practical classes, project work, group exercises and discussions consistent with the Programme.

Phase 1 of the Programme provides year 1 of the HND programme, and contains all assessment and examinations as required by the current SQA QA requirements. It is the responsibility of AIMS to assess students using formative assessments, and guidance will be provided by STC to assist AIMS staff to ensure the appropriate range and standard of assessment is reached. AIMS staff will prepare, mark and moderate all formative assignments undertaken at their centre.

**Centre B responsibilities**  
South Tyneside College (STC) are the lead centre, and undertake the full QA responsibilities for the IIND programme.  
STC will provide a training programme to enable students to gain the final SQA IIND award. STC will undertake all formal summative assessments of the IINC and IIND elements, to ensure compliance with current MCA certification requirements, and will retain student assessment evidence for External SQA validation.  
STC will register all students with SQA and pay the appropriate registration fee on their behalf.  
Annual QA visits are undertaken by STC to AIMS, and these reports are available for MCA / SQA monitoring on request.

All partners have copies of and agree to implement:

- Key dates for transfer of information as outlined in the MoU between AIMS and STC
- Management of Quality Assurance as detailed by SQA

Signed: *Santosh Pal* for AIMS

Designation: Santosh Pal (Chairman)

Seal:

Signed: *Gary Hindmarch* For South Tyneside College

Designation: Principal, South Shields Marine School

Seal:

20 MAY 2016  
THE MARINE SCHOOL

विशेष/च.आ/मु.ता.वि./र.म.

No. 63848

नोंदणीचे प्रमाणपत्र

याद्वारे प्रमाणपत्र देण्यात येते की, खाली वर्णन केलेली सार्वजनिक विस्तृतव्यवस्था ही आज, मुंबई सार्वजनिक विस्तृतव्यवस्था अधिनियम, १९५० (सन १९५० चा मुंबई अधिनियम क्रमांक २९) या अन्वये.....

*Nagpur*..... येथील सार्वजनिक विस्तृतव्यवस्था नोंदणी कार्यालयात योग्य रीतीने नोंदण्यात आलेली आहे.

सार्वजनिक विस्तृतव्यवस्थेचे नाव *AARNA FOUNDATION,*  
*Nagpur.*

सार्वजनिक विस्तृतव्यवस्था नोंदणी दस्तकातील क्रमांक *E-2210 (N)*  
*Amit Baidhmata Pal.*

२५.१२.०८

आज दिनांक २००८ रोजी माझ्या सहोदित्याने दिले.

प्रमाणपत्र दिले.

महो *[Signature]*  
अधीक्षक उप आयुक्त  
पुणे

२५/१२/०८

ISO

IAO





# AARNA INSTITUTE OF MARITIME STUDIES

(Approved by SQA, MNTB, MCA-United Kingdom)

Village Talegoan, Near Sindhudurg Rly. Stn., Post Oras, Tal - Malvan,

Dist - Sindhudurg, Maharashtra, India, Tel.: (0091) 02362-228550-51

Email : info@aimsindia.org.in website : www.aimsindia.org.in

Affix your recent  
Passport size  
Attested Coloured  
Photograph  
(40 mm x 30 mm)

## HND IN MARINE ENGINEERING STC (MCA-UK) APPLICATION FORM

No :

1.	Name in Full (In Block Lettes as per 10th Std. Cert)	:					
2.	Date of Birth	:		Age :	Years :	Months:	
3.	Place of Birth	:					
4.	Local Guardian's Name Address and Relationship	:					
		:			Relationship :		
		:	Tel. No.:		STD Code :		
5.	Communication Address with Tel. No. (Mention STD Code) and PIN Code	:					
		:	Tel. No.:		STD Code :		
6.	Permanent Address	:					
		:					
		:	Tel. No.:		STD Code :		
7.	Nationality	:					
8.	Passport No. (If any)	:			Place of Issue :		
9.	Father's Name	:			Occupation :		
10.	Academic Qualification Class X / Equivalent Class XII / Equivalent Bsc. B.E./ B. Tech And Others ( ) (Attach Attested Copies of Mark Sheets)	:	Year Passed	Overall % age	English %age	P.C.M.%age	
		:					
		:					
		:					
		:					
11.	Swimming	:	(Yes/No)	Hobbies :			
12.	Physical fitness	:	Height		Cms.	Weights	
		:				Kgs.	
13.	Eyesight	:	Normal (Yes/No)			Colour Blindness (Yes/No)	



14.	Chest	:	Unexpanded		Cms.	Expanded		Cms.
15.	Identification Marks	:						
16.	Extra Curricular Activities (Attached Copies)	:						
17.	Are you a ward of a Seafarer	:	(Yes / No)		CDC No. of the Guardian :			
18.	Are you Sponsored by any Shipping Company (Attach Sponsorship Letter)	:	(Yes / No.)		Company Name :			

**JOINT DECLARATION BY THE APPLICANT AND PARENT / GUARDIAN**

We hereby declare that all the information furnished in this application is true & correct to the best of our knowledge & belief. The original Certificate will be produced for verification at the time of admission. In the event of any information furnished by us is found to be incorrect or false, we agree to rejection / termination of the candidate / admission and forgo any claim whatsoever. I undertake and agree that neither I nor my executors, administrators or any other legal representative will make any claim against the Authorities of Aarna Institute of Maritime Studies (AIMS) or against any person in the service of Aarna Institute of Maritime Studies(AIMS) in respect of any loss or injury to the property or person injury resulting in death which the said student may suffer while the said student is/or in consequence of the said student undergoing training at Aarna Institute of Maritime Studies (AIMS). In case the applicant withdraw from the course before commencement of the course or does not report on the day of commencement of course. I or we shall not ask for any refund or transfer of any fees. We also understood that Aarna Institute of Maritime Studies (AIMS) is not having any responsibility if any students/ parents / guardians paying any money to any agents or any persons for admission or job. We have understood the rules & regulations mentioned in the prospectus / website of the Institute. Any Disputes are subject to Mumbai Jurisdiction.

**Date :** \_\_\_\_\_ **Signature of the Applicant :** \_\_\_\_\_  
**Place :** \_\_\_\_\_ **signature of the Parent / Guardian :** \_\_\_\_\_

Note : Kindly submit 2 recent photographs & attested copy of all certificate along with application.  
**ENCLOSURES :** (Please mention Documents you have enclosed)

- 1.
- 2.
- 3.
- 4.

**FOR OFFICE USE ONLY**

(THIS SHOULD NOT BE FILLED BY APPLICANT)

Registration No. and Date : \_\_\_\_\_  
Scrutinized by : \_\_\_\_\_  
Date of Reporting : \_\_\_\_\_  
Medical Test Report : Fit ☐ Unfit ☐  
Selected ☐ Rejected ☐ Wait Listed ☐  
Verification of Original Documents : \_\_\_\_\_  
Payment Details \_\_\_\_\_ Signature : \_\_\_\_\_