

Maritime Subsector

CAREER GUIDE

volume 9



Transport Education Training Authority



Transport SETA





Transport Education Training Authority

Driven by Vision

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REGIONAL OFFICES



KwaZulu-Natal:

Freight Handling Chamber
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635 to 641 Peter Mokaba Rd Overport
Durban | 4001
+27 31 301 9614



Limpopo:

Forwarding and Clearing Chamber
19A Bok Street | Polokwane
+27 15 917 0001/2



Western Cape:

Maritime Chamber
Newlands on Main | Ground Floor
Mariendahl House | 13 Main Road
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+27 21 819 9601
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Mpumalanga:

Road Freight Chamber
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MARITIME SUBSECTOR

SUBSECTOR OVERVIEW

This subsector involves the transportation of people and freight by sea. Apprentice/Artisan skills are required at sea on a huge variety of platforms. This means that SAMSA regulatory training is needed to grant candidates the opportunity of legally working at sea within a Maritime environment.

It includes the:

- Freight transport over the oceans/seas (merchant shipping)
- Boating and cruising
- Fishing
- Port activities Authorities
- Associated land-based activities



Occupations in the Maritime Subsector

1. SHIPPING TRANSPORT AND MARITIME LOGISTICS AND INFRASTRUCTURE

Occupations on Board a Ship (Seafarers)

Typical ship operations can be divided into three areas:

- The deck department,
- The engineering department,
- The steward's department (cleaning and cooking)

DECK HAND

Other name variations: Able Seaman, Able Seafarer

Occupational code: 735101

Brief Job Description

Performs these tasks at a support level:

- Navigation and bridge watch keeping
- On-board operations and care for persons on board
- Handle and stow cargo
- Maintenance and repairing

- Mooring, towing, berthing and anchoring
- Carrying out security duties

Areas you can specialise in

- Able Seafarer Deck
- Port Operations
- Fishing

Entry Requirements

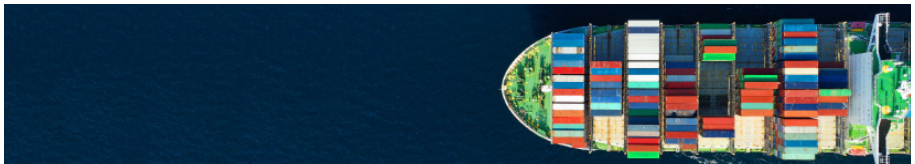
- Medical fitness and eye test certificate
- Certificate of Proficiency and any requirements prescribed by SAMSA Merchant Shipping Regulations

Required Qualities for Success

- Physical fitness and personal survival techniques
- Good listening and communication skills
- Safety and security awareness
- Team player

Factors to Consider

- Most work is outdoor, must adapt to weather changes and emergencies
- You may spend long time at sea



Officer, Deck Officers

Occupational code: 315202

Brief Job Description

- Assist the captain to navigate and control the operation of a ship
- Participate in controlling deck and bridge-watch activities
- Ensure safe loading and unloading of cargo
- Take care of the safety of the crew and supervise crew

Areas you can specialise in

- Freight
- Cruising
- Fishing

Entry Requirements

- Grade 12 with Maths and Science
- Diploma or equivalent in Maritime Studies
- Certificate of Competency and any requirements prescribed by SAMSA Merchant Shipping Regulations

Required Qualities for Success

- Navigate at operational level
- Physical fitness and personal survival techniques
- Good listening and communication skills
- Safety and security awareness
- Knowledge of marine pollution legislation

Factors to Consider

- Must adapt to weather changes and emergencies
- You may spend long time at sea

SHIPMASTER

Other name variations: Ship Captain

Occupational code: 315201

Brief Job Description

- Controls the operations of a freight or passenger ship at management level
- Navigating ships in and out of ports
- Manage Security Procedures and Contingency Plans on-board a ship

Areas you can specialise in

- Freight
- Fishing vessels
- Cruise liners
- Harbour Pilot/Tug Master

Entry Requirements

- Grade 12 with Maths and Science
- Diploma or equivalent in Maritime studies
- Certificate of Competency and any requirements prescribed by SAMSA Merchant Shipping Regulations
- Excellent track record of working at sea is required

Required Qualities for Success

- Love for the sea
- Need to be highly trusted by the shipowners
- Good judgement and administration skills
- A good knowledge of maritime laws in different parts of the world

Factors to Consider

- You spend most of your time out at sea and exposed to different weather conditions and time zones
- Costly cargo is entrusted to you

2. ENGINEERING/ARTISANAL TECHNICAL MARINE ENGINEER

Other name variations: Ship's Engineer

Occupational code: 315101

Brief Job Description

- Manage the operation and maintenance of the ship's engine
- Manages all engineering related needs of a ship
- Manage, lead and develop personnel

Areas you can specialise in

- Freight
- Fishing vessel
- Cruise ship
- Port operations

Entry Requirements

- Grade 12 with Maths and Science
- Diploma/degree in Maritime Engineering
- Certificate of Competency and any requirements prescribed by SAMSA Merchant Shipping Regulations

Required Qualities for Success

- Technical savvy
- Good communication skills
- Attention to detail
- Good judgement and decision making

Factors to Consider

- You may spend most of your time out at sea

SHIP'S ENGINEERING OFFICER

Brief Job Description

- Support role to the marine engineer
- Responsible for all the electrical and mechanical maintenance of the ship
- Operating all mechanical equipment from engine, pumps refrigeration and air conditioning

Areas you can specialise in

- Freight
- Fishing vessel
- Cruise ship

Entry Requirements

- Grade 12 with Maths and Science
- Diploma/degree in Maritime Engineering
- Certificate of Competence and any requirements prescribed by SAMSA Merchant Shipping Regulations

Required Qualities for Success

- Technical savvy
- Attention to detail
- Ability to identify problems and solve them

Factors to Consider

- You spend most of your time out at sea
- You should be ready to respond to any emergency any time of the day

3. PORTS, MARINE SERVICES AND COASTAL MANAGEMENT PORT SERVICES

DIVER

Other name variations: Scuba Diver

Occupational code: 684101

Brief Job Description

- Performs various underwater jobs using scuba gear or diving suit
- Repair harbour wall foundations
- Repair damaged ship hulls
- Check condition of marine accidents

Entry Requirements

- Grade 12
- The entry requirements are prescribed by the Department of Labour Diving Regulations and Diver Training Regulations

Required Qualities for Success

- Must be a good swimmer
- Good instrument reading skills
- Time management
- Quick thinking

HARBOUR MASTERS

Occupational code: 132407

Brief Job Description

- Overall control of a port
- Control shipping traffic at a port
- Manage lighthouses and vessel tracking systems
- Enforce harbour regulations

Entry Requirements

- Relevant management, logistical or maritime qualification
- Maritime expertise

Required Qualities for Success

- You need to be a natural leader
- You must be able to handle pressure and stress well
- A port manager must be able to juggle different tasks at the same time
- Must be a team player as you work with many people

Factors to Consider

- Requires physical fitness as it may require climbing, kneeling or lifting
- Good vision and good tolerance to weather conditions

MARINE SAFETY OFFICER

Occupational code: 325702

Brief Job Description

- Provide preventative measure to ensure safety at the sea or at ports
- Inspect vessels to ensure conformity to safety standards
- Review storage and operations areas to ensure they meet safety standards
- Give advice on environmental hazards

Entry Requirements

- Certificate of Competence and any requirements prescribed by SAMSA Merchant Shipping Regulations
- Considerable Maritime years of experience

Required Qualities for Success

- Knowledge of maritime safety regulation
- Good communication and organisational skills
- Critical thinker

Factors to Consider

- Plan for emergencies all the time
- People may feel inconvenienced by rules in place

MARINE BIOLOGIST

Other name variations: Maritime environmentalist

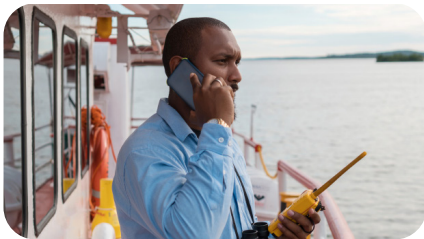
Occupational code: 213107

Brief Job Description

- Management of marine environment
- Prevention of sea pollution
- Risk assessment specialists
- Testing and approval of treating systems
- Assisting in establishing the ecological effects of projects like the construction of harbours

Areas you can specialise in

- Marine biologist
- Oceanographer



Entry Requirements

- Grade 12 with Maths and Science
- Degree in Oceanography or equivalent

Required Qualities for Success

- Love for marine life
- Data analysis skills
- Attention to detail and active listening skills

Factors to Consider

- Most of the work is conducted outdoors
- Requires physical fitness to work in challenging remote locations

SHIP'S PILOTS

Other name variations: Marine Pilot; Tug Master

Occupational code: 315201

Brief Job Description

- Help in guiding ships when arriving or departing a port
- Advise captains of ships as they understand the local waters
- Control and participating in deck and bridge-watch activities

Entry Requirements

- Grade 12 with Maths and Science
- Diploma in Maritime studies or equivalent
- License to operate as a ship's pilot

Required Qualities for Success

- Good communication skills
- Quick thinking and good judgment
- Excellent knowledge of the area

Factors to Consider

- Ship masters rely on your port knowledge
- You will handle different sizes of ship in a day

SHIP'S SURVEYORS

Other name variations: Marine Surveyor

Occupational code: 315203

Brief Job Description

- Conduct inspections and tests of vessels as required by law
- Check safety standards and condition of equipment
- Carry out surveys for government, insurance companies and freight owners

Entry Requirements

- Grade 12 with Maths and Science
- Diploma or Degree in maritime studies, or equivalent maritime engineering studies

Required Qualities for Success

- Ambitious and target driven
- Technical and analytical skills
- Attention to detail and ability to process a lot of data
- Report writing skills

Factors to Consider

- May act as an investigator or expert witnesses in marine accidents
- Documentation of all activities required for future reference

SHIPWRIGHTS

Other name variations: Ship's Carpenter

Occupational code: 684908

Brief Job Description

- Construct and repairs shipping vessels
- Uses all type of material to build ships

Areas you can specialise in

- Commercial freight
- Fishing vessel
- Cruise ship

Entry Requirements

- A General Education and Training Certificate (GETC) or a Grade 9
- Learnership in Yacht or Boat building qualification would be an advantage

Required Qualities for Success

- Knowledge of materials and equipment to use for ship building
- Possess visualising and designing abilities
- Good communication skills
- Knowledge of reading plans and measurements

Factors to Consider

- Involves physical activity
- The working environment can be loud
- Must be a team player

4. SUPPORT SERVICES

All organisations within the maritime subsector require support services. Within the support services you will find careers in IT, marketing, sales, finance, HR, legal services, research and development. These careers are adapted to the subsector to support operations.

Management Professionals

- Bunkering and Barge Operators (Refuelling of Ships)
- Cargo Operations Personnel
- Catering Staff
- Crewing Manager
- Communication Manager
- Dredge Masters (Channel Clearing)
- Finance Marine
- Freight Forwarding Professionals
- IT Professionals
- Marine Managers
- Marine Operations Manager (Fleet)
- Maritime Lawyer
- Project Management
- Sales Managers
- Sea Watch and Communication Operators
- Ships Agent

HARD TO FILL VACANCIES IN THE MARITIME SUBSECTOR

The following skills are in high demand

- Marine Safety Officer
- Fishing Hand
- Deck Hand

- Skipper (Fishing Boat)
- Ship`s Officer
- Education or Training Advisor
- Clearing and Forwarding Agent
- Ship`s Master
- Ship`s Engineer
- Diver

Contact Details

Department of Transport (DoT)

www.transport.gov.za

Transport Education Training Authority

www.teta.org.za

National Ports Authority

www.transnet.net

South African Maritime Safety Authority (SAMSA)

www.samsa.org.za

South African International Maritime Institute (SAIMI)

www.saimi.co.za

TRAINING INSTITUTIONS WITH MARITIME STUDIES

Cape Peninsula University of Technology

Western Cape

Web address: www.cput.ac.za

Durban University of Technology KZN

Web address: www.dut.ac.za

Nelson Mandela University - Eastern Cape

Web address: www.mandela.ac.za

University of KwaZulu-Natal KZN

Web address: www.ukzn.ac.za

SAMSA

Web address: www.samsa.org.za

University of Stellenbosch - Western Cape

Web address: www.sun.ac.za

University of Cape Town - Western Cape

Web address: www.uct.ac.za

University of Zululand - KZN

Web address: www.unizulu.ac.za







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