



MARITIME ECONOMICS

2020 ONLY

GRADE 12

1. NO Curriculum Trimming

2. Assessment:

Current SBA Requirements:

TERM 1	TERM 2	TERM 3	TERM 4
Task 1: Test 50 marks	Task 3: Research Project 50 marks	Task 5: Test 2 50 marks	External exam (theory paper) 300 marks
Task 2: Assignment 50 marks	Task 4: Midyear exam 300 marks	Task 6: Trial Exam 300 marks	
800 divided by 8 = 100 marks			

Amended SBA Requirements for 2020:

1. Remove Task 3 : Research Project
2. Remove Task 4: Midyear exam
3. Remove Task 5 : Test 2
4. Portfolio Total Mark changed to 400
5. Mark to be converted to a percentage (mark out of 100)

Descriptions	Mark
Task 1: Test	50
Task 2: Assignment	50
Task 6: Trial Exam	300
Total Marks:	400
Mark to be submitted out of 100 [400 divided by 4 = 100 marks]	/100

GRADE 10 & GRADE 11
CURRICULUM ADJUSTMENTS

NOTE:

1. Sections of the syllabus shown below can be omitted, covered more superficially, or moved to another year's study – as indicated.
2. Sections of the syllabus ***NOT*** listed below should be covered in the current year.
3. It is recommended highly that, although some topics may be omitted from this year's teaching, the sections listed below should be covered at some point before learners attempt the National Senior Certificate examinations at the end of their Grade 12 year in 2021 or beyond.
4. It is recommended that learners make use of the website www.maritimesa.org in which the syllabus content is covered in detail and examples of worksheets and examination questions are provided. There is no charge for access to the website although some mobile telephone charges may apply.

GRADE 10

1: Maritime World

10.1.3 Display a working knowledge, as they affect shipping, of

- International time zones
- International date line

Performing simple calculations taking into account the 24 hours nature of shipping, maps, and gaining or repeating time depending on direction of travel.

10.1.4 Investigate and presenting the careers related to Maritime Economics

Investigating and describing maritime careers such as:

Sea-Going Careers including Navigation or Engineering (Merchant Navy or S.A. Navy)	Ship-Broking, Ship Chartering and Ship Management
Ships' Agency Operations	Harbour Operations
Maritime Environmental Conservation	Oceanography or Hydrography
Maritime Economics	Maritime-Related Tourism
Marine Surveying	Liner Services
Bunker Trade	Cargo Forwarding and Clearing
Cargo Planning and Handling	Maritime Training or Education
Maritime Land-Use Advisers	Fisheries Patrol Services.
Salvage	Maritime Law
Marine Insurance	Port State Control and Flag State Control
Ship Chandling	Ship Repair and Maintenance
Naval architecture	Fishing Industries

It is recommended highly that the topics covered in Section 10.1.4. should be referred to at various stages during the next two years as the section gives the learners an idea of some of the career opportunities available in the maritime industry.

2: Shipping Operations

10.2.1 Comment on factors relating to port location, construction, operations changes to harbour land use and the effect of rejuvenation of derelict zones within a harbour area.

Investigating and discussing information pertaining to:

- Factors relating to port location: sustainable cargo flows, shelter from prevailing wind and swell, depth of water, flat land, services (water, electricity), labour, access (road and rail links) finance, ancillary services
- Port management structures, including the rank structure of the marine operations personnel.
- Procedures, personnel and vessels involved in ships' movements in harbours and dry-dock and locks.
- Rejuvenation of derelict zones – reasons for dereliction, reasons for rejuvenation e.g. Cape Town Waterfront and Durban Point Area

Section 10.2.1. can be combined with the appropriate sections in Grade 11 next year (Section 11.2.1.)

10.2.2 Describe major shipping companies that operate to and in South Africa.

- Naming of major shipping companies and spheres of operation – what types of ships they operate, where they trade.
- Conducting research on the history of one company.

10.2.4 Explain the basic principles of marine salvage

Finding information, defining concepts and developing terminology to discuss

- Marine salvage
- Lloyd's Open Form
- SCOPIC (salvage costs to P&I club)

Section 10.2.4. can be combined with the appropriate section in Grade 11 next year (Section 11.2.4.)

3: International Trade

10.3.1 Investigate and present major elements of and milestones in the history of the South African maritime trade

- Exploring concepts of indigenous knowledge systems and identifying how they may have contributed to early use of water bodies for trade(e.g. Nile River)
- Examining the factors that have stimulated (or stunted) the growth of the South African shipping industry, including the following :
 - Early explorers, Dutch & British colonization, and early shipping services
 - Influence of major events on the local shipping industry, especially the mineral discoveries, opening of the Suez Canal, Anglo-Boer War, World Wars 1 & 2, both closures of the Suez Canal, Apartheid era and trade sanctions, Abolition of apartheid and full democracy, the post-apartheid trade boom, global trade fluctuation, especially the global shipping boom based on Far Eastern economic growth
 - Development of major South African shipping lines

10.3.2 Identify and describe the locations and inter-relationships of the world's leading trading nations

- Accessing a variety of sources including map reading to locate leading trading nations and regions including China and other Far eastern nations, North America Western Europe, Russia, India, Arabian Gulf, Australia

- Identifying and listing major commodities imported and exported from each of the above nations/regions (Done with ship types)

Section 10.3.2. can be condensed and limited to major areas of production and consumption of commodities such as oil, grain, iron ore, coal and steel.

10.3.4 Investigate the extent of transgressions of maritime law

Defining types of transgressions and counter-measures, citing recent case studies:

- Transgressions: piracy, smuggling, cargo broaching, ship hijacking, terrorism, stowing away, illegal transportation of humans, drugs and weapons, poaching of marine resources.
- Counter measures taken by navies, coastguards, immigration authorities, fisheries protection agencies and customs.

Section 10.3.4. can be combined with the appropriate section in Grade 11 next year. (Section 11.3.4.)

4: Maritime Environmental Challenges

10.4.2 Describe meteorological factors that impact on shipping operations, in port and at sea.

Investigating the effects on shipping of:

- Fog
- Wind
- Sea Conditions
- Ice

Section 10.4.2. can be combined with the appropriate section in Grade 12 in 2022. (Section 12.4.2.)

10.4.3 Explain the fragility of marine ecosystems and the need to safeguard such systems.

Defining the concept of ecosystems and investigating:

- The marine food chain
- The need for safe shipping practices that aid conservation of marine resources
- Management and protection of marine resources

Section 10.4.3. can be combined with the appropriate section in Grade 12 in 2022. (Section 12.4.2.)

10.4.4 Describe the processes involved in the extraction of marine resources with special reference to fishing, minerals (diamond dredging) from the ocean floor and oil and gas from beneath the ocean floor.

Investigating operations such as:

- Diamond dredging operations
- Prospecting for sub-sea oil and gas
- Exploitation of sub-sea oil and gas
- Deep sea fishing
- Vessels and floating structures associated with these operations

Section 10.4.4. can be combined with the discussion of various ship types during this year.

Grade 11

1: Maritime World

11.1.1 Interpret and use information contained in Lloyd’s Register of Shipping and assess the suitability of ships for particular cargoes and trades

Using data from extracts from Lloyd’s Register of Shipping to solve problems and make decisions relating to the suitability of ships to move cargo taking into consideration type of ship, size of ship, cargo capacity, draught, cargo gear, and speed and fuel consumption.

AS 11.1.2 Use maps to interpret trade routes, port location.

Reading and analyzing maps to obtain data on local, regional and global ports and trade routes including:

- Other African Ports: Maputo, Mombasa, Luanda, Walvis Bay, Abidjan, Dakar, Port Said.
- Major Foreign Ports: Rotterdam, Antwerp, Hamburg, London, Felixstowe, New York, San Francisco, Los Angeles (Long Beach), Vancouver, Singapore, Hong Kong, Shanghai, Yokohama, Sydney

While no detailed discussion of these ports is necessary, it is important for learners to know the location of these ports.

AS 11.1.3 Apply knowledge of international time zones and the international date line to shipping operations

Performing calculations involving realistic voyages across time zones and the International Date Line

AS 11.1.4 Investigate and explain the training, education and experience needed to pursue the various maritime related careers

Conducting research to find out about:

- Formal tertiary education and training, on-the-job training, industry related courses (including the location of training institutions and broad content of training and entry requirements).
- Rank structure of seafarers and promotion requirements.
- Broad job descriptions of the major maritime-related careers

It is recommended highly that the topics covered in Section 11.1.4. should be referred to at various stages – suggestions include inviting seafarers, port officials or others to talk to the learners after hours. It is important that learners be informed about the career opportunities available in the maritime industry.

2: Shipping Operations

The roles of various ancillary services should be covered, albeit more lightly than would normally be the case.

3: International Trade

All sections to be covered, albeit more lightly than would normally be the case.

4: Maritime Environmental Challenges

Although this section can be covered more lightly than would normally be the case, it must be realised that an understanding of some of these topics is basic to the understanding of some of the Grade 12 syllabus content relating to Maritime Environmental Challenges.

**SUGGESTED ASSESSMENT
GRADES 10 AND 11
2020 ONLY**

Grade 10

SBA	First Term's work (Tests)	100
Assignment	It is recommended that an assignment be set, preferably covering one of the topics that will be covered superficially this year, or that will be moved to the learners' Grade 11 or Grade 12 year.	50
November:	Examination	150
Total (to be calculated out of 100 marks)		300

Grade 11

SBA	First Term's work (Tests)	100
Assignment	It is recommended that an assignment be set, preferably covering one of the topics that will be covered superficially this year, or that will be moved to the learners' Grade 12 year.	100
November:	Examination	200
Total (to be calculated out of 100 marks)		400

We are grateful to Maritime Economics educators whose ingenuity in this abnormal time will enable learners to gain an insight to

- **the many facets involved in the operations of the maritime industry,**
- **the importance of this vital industry to the country's economy, and**
- **the career opportunities available in the industry.**