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SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)

In accordance with Regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

Maritime Operations

registered by Organising Field 11, Services, publishes the following qualification and unit standards for public comment.

This notice contains **the** titles, fields, sub-fields, NQF levels, credits, and purpose of the qualification and unit standards. The full qualification and unit standards can be accessed via the SAQA web-site at www.saq.org.za. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcaia Street, Hatfield, Pretoria.

Comment on the qualification and unit standards should reach SAQA at the address below and **no** later **77 May 2007**. All correspondence should be marked Standards Setting – Maritime Operations addressed to

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SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION:**National Certificate: Fishing Operations**

SAQA QUAL ID	QUALIFICATION TITLE		
58433	National Certificate: Fishing Operations		
SGB	PROVIDER		
SGB Maritime Operations			
ETQA			
QUALIFICATION TYPE	FIELD	SUBFIELD	
National Certificate	11 - Services	Transport, Operations and Logistics	
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUAL CLASS
Undefined	120	Level 2	Regular-Unit Stds Based

PURPOSE AND RATIONALE OF THE QUALIFICATION

Purpose:

This qualification is aimed at people who work or intend to work on board ship or fishing vessel as Deck Officer (Fishing under 24 metre) or Marine Motorman Grade 2 (on deck or in the engine room respectively), and those who seek recognition for essential skills in Fishing Operations. In particular, this qualification will be useful for the following people:

- Officers in charge of a navigational watch on fishing vessels under 24 metres.
- Chief engineer officer of a fishing vessel of less than 350kW propulsion power.
- Second engineer officer of a fishing vessel of less than 750kW propulsion power.
- Officer in charge of an engineering watch on a fishing vessel of less than 2000kW propulsion power.

This qualification is designed to equip qualifying learners with the knowledge and skills to conduct the essential operations associated with efficient and safe vessel operations, including fishing.

The qualifying learner will be able to:

- Contribute to safety and emergency related matters when working on a fishing vessel.
- Perform pollution prevention and pollution response duties and activities on a fishing vessel.
- Work effectively with other seamen and senior members on board a vessel.

Rationale:

The fishing industry is a priority area within the South African context and is supported by legislation, national policies and strategies. In order to meet the requirements of the workplace it is important to be able to identify and recognise competent seamen at various levels. There is a critical need in the industry to identify and give recognition to people who are able to conduct the essential operations associated with efficient and safe onboard operations in at least one of the Navigation and Engineering functions under fishing, coastal or port operations,

This Qualification is the first in the learning pathway and will give learners working in the maritime industry generally, and the fishing industry specifically the opportunity to build on experience or qualifications they already have, and complement their practical skills with the essential knowledge needed to earn a formal qualification in the fishing and maritime industry.

RECOGNIZE PREVIOUS LEARNING?**Y****LEARNING ASSUMED TO BE IN PLACE**

- o Communication at NQF Level 1.
- Mathematical Literacy at NQF Level 1.

Recognition of Prior Learning:

The structure of this qualification makes the Recognition of Prior Learning possible through the assessment of individual Unit Standards. This qualification may therefore be achieved in part or completely through the recognition of prior learning, which includes formal, informal and non-formal learning and work experience. The learner should be thoroughly briefed on the mechanism to be used and support and guidance should be provided. Care should be taken that the mechanism used provides the learner with an opportunity to demonstrate competence and is not so onerous as to prevent learners from taking up the RPL option towards gaining a qualification.

If the learner is able to demonstrate competence in the knowledge, skills, values and attitudes implicit in this qualification the appropriate credits should be assigned to the learner. Recognition of Prior Learning will be done by means of Integrated Assessment as mentioned above.

This Recognition of Prior Learning may allow:

- o Accelerated access to further learning at this or higher levels on the NQF.
- o Gaining of credits towards the Exit Level Outcomes.
- Obtaining of this Qualification in part or in whole.

Access to the Qualification:

This qualification is open to anyone with access to learning opportunities and work experience in the areas reflected in the exit level outcomes and unit standards. It is advisable that learners should be competent in the learning assumed to be in place before embarking on learning towards this qualification.

QUALIFICATION RULES

The Qualification is made up of Unit Standards classified as Fundamental, Core and Elective

Fundamental: 36 credits.

Core: 25 credits.

Elective: 59 credits Minimum

Total: 120 credits Minimum.

Fundamental Components:

- All Unit Standards in the Fundamental Component are compulsory.

Core Components:

- o All Unit Standards in the Core Component are compulsory.

Elective Components:

- The Electives Unit Standards in this Qualification cover three main specialist areas namely, Deck, Engineering and Fishing. Learners are to choose either the deck or the engineering speciality and complete all the unit standards listed for the speciality. Learners are then to choose additional unit standards from the fishing electives to give an elective total of at least 59

credits. The Fishing electives should be chosen according to the type of fishing done on the vessel on which the learner works or which he/she has access.

Deck:

- Demonstrate knowledge of vessel construction and stability.
- Demonstrate an understanding of Marine Safety Information.
- Explain and operate echo sounders, speed logs, global navigational satellite systems and electronic plotters.
- Operate radar equipment.
- Demonstrate competence to plan and conduct a safe coastal passage.
- Demonstrate knowledge of safety with reference to fishing operations, fishing gear and fish handling.
- Demonstrate an understanding of the Merchant Shipping Collision Regulations and amendments.

Engineering:

- Demonstrate an understanding of the terms in the machinery spaces, basic construction and operation of equipment and propelling machinery on seagoing vessels.
- Demonstrate competence in use of hand and power tools.
- Demonstrate operation of the centrifugal separators in the seagoing maritime industry.
- Operate and carry out basic routine servicing of marine extra low and low voltage electrical systems.
- Operate and carry out basic service checks on small vessel marine propulsion systems.
- Operate refrigeration equipment on board a vessel.
- Perform watch keeping procedures in the engine room of a seagoing vessel.

Fishing:

- Adjust and position crayfish traps.
- Catch fish using a pole and gaff.
- Demonstrate a basic knowledge of commercial fishing methods.
- Demonstrate knowledge of net mending and mend a net.
- Describe safe deck practices on a commercial fishing vessel.
- Identify current legislative and company procedures applicable to the fishing industry.
- Jig for squid.
- Maintain the equipment and vessel to pole fish.
- Maintain, prepare, deploy & retrieve crayfish traps to land catch.
- Maintain, prepare, deploy & retrieve fishing net to land catch.
- Monitor and control the implementation of safe working practices on a fishing vessel.
- Sort and handle raw seafood manually.
- Work on a deep sea commercial fishing vessel.

Learners may also choose other Elective Unit Standards that are applicable to their particular circumstances and career path.

EXIT LEVEL OUTCOMES

1. Contribute to safety and emergency related matters when working on a fishing vessel.
2. Perform pollution prevention and pollution response duties and activities
3. Work effectively with other seamen and senior members on board a vessel.

ASSOCIATED ASSESSMENT CRITERIA

- 1.

- First aid functions are carried out on board a vessel in accordance with regulated requirements.
- a Fire fighting and fire prevention procedures are carried out to ensure the safety of self and others onboard a vessel.
- Life-raft activities are carried out in emergencies in accordance with regulated requirements
- a Emergency legislation, procedures and practices are applied on board a vessel.
- Implement safe working practices while performing tasks on board a vessel.

2.

a Environmental policy is described and implemented in accordance with maritime legislation and shipboard practices.

- Normal duties are performed to prevent pollution.
- Pollution situations are dealt with according to maritime legislation and shipboard practices.

3.

- Instructions are interpreted and followed according to shipboard requirements and maritime legislation.
- Teamwork activities are practised to ensure the effective running of activities on board the vessel.

Integrated Assessment:

Assessment should be carried out at regular intervals as well as at the end of the periods of study and should be offered in an integrated way. It is envisaged that learners will work at more than one unit standard at a time.

The achievement of applied competence of this qualification will be demonstrated if the learner is able to apply operational knowledge and skills to operate on board a sea going vessel in a safe manner.

Evidence is required that the candidate is able to achieve the purpose of the qualification as a whole at the time of the award of the qualification. Integration of skills will be demonstrated through the achievement of the core operational standards.

Assessors should note that evidence of integration could well be presented by candidates when being assessed against the individual unit standards. Thus, there should not necessarily be separate assessments for each unit standard and then further assessment for integration. Well designed assessments should make it possible to gain evidence against each unit standard while at the same.

INTERNATIONAL COMPARABILITY

The Fishing profession is an area with globally recognised best practices, standards and Qualifications. This Qualification and set of Unit Standards utilises these international and locally recognised best practice and standards for comparison.

The International Convention for Standards for Training and Certification & Watchkeeping for Fishing Vessel Personnel (STCW-F) was adopted in July 1995 by a diplomatic conference convened under the auspices of the International Maritime Organisation (IMO).

South Africa is a member of the IMO Council and is expected to support this initiative and this Qualification complies with these principles and practices.

The South African Maritime Safety Authority (SAMSA) introduced in domestic law the principles and standards embodied in the convention. This qualification is an example of that and the majority of unit standards were drawn up with reference to the related maritime legislation, amendments and codes.

The following qualifications, courses and modules were used as part of the international comparability exercise as the countries in which they are offered are all party to the International Convention for Standards for Training and Certification 8 Watchkeeping for Fishing Vessel Personnel (STCW-F).

Papua New Guinea National Fisheries College:

Certificate in Fishing Operations 1 (CFO1):

- A course for deckhand qualifications for fishing boat crews:
 - Basic skills required for employment as qualified deckhands on fishing boats.
 - Safe working practices, safety at seas, radio operations, deck skills, fish quality and handling
 - Teamwork, discipline and understanding the chain of command at sea.

Certificate in Small Fishing Operations 1 & 2:

- Boat Safety.
- Basic Navigation.
- Mechanical maintenance and repair,
- Fishing Gear Design.
- Fishing Operations.
- Seafood Handling.
- Small Business Management.
- Fisheries Resources Management.

The above Qualifications compare well with the South African Unit Standards

United Kingdom Maritime Training (Plymouth):

Efficient Deck Hand (Ref. MCA-MGN 10):

- Meaning of common nautical terms.
- Name and function of various parts and equipment of the ship.
- Use and care of ropes and wires, splicing of ropes.
- Use of different types of blacks and shackles, bottle screws, bull-dog grips, thimbles, monkey plates.
- Rigging and attendance of pilot ladders and hoists.
- Rigging and bosun's chair and slinging an over side stager.
- Precautions to be taken while working over side.
- Identification of commonly used single letter flags.
- Maintain an efficient lookout.
- Operation of windlass, mooring winch, back spring, skip wire, rope stopper, chain stopper.
- Opening and closing hatches, rigging up derrick.
- Knots, bends and hitches in common use.
- Securing in anticipation of rough sea.

Deck Officer Certificates of Competence Ancillary Courses:

STCW'95 Basic Safety Training:

- Basic principles of First Aid.
- Fire Fighting, Survival at Sea.
- Personal Safety and Social Responsibility.

Basic and Advanced Fire Fighting:

- Principles of Fire Fighting.
- Breathing Apparatus.
- Command and Control of Fire Fighting Teams,

Navigation, Radar and ARPA Simulation:

- Navigation principles.
- Electronic navigation aids.
- Radar Principles and Operation.
- Collision prevention.
- Automatic Radar Plotting Aids.

Small Ships Navigation and Radar:

- Chartwork.
- Navigational aids.
- Bridge watchkeeping.
- Prevention of collision.
- Radar principles.

The courses and Qualifications offered by the United Kingdom are also well aligned with ours. However these are specifically aimed at people working on the deck of a vessel and exclude the Engineering and Fishing specific Elective components of the South African Qualification.

Australia, Australian Maritime College School of Maritime Industry Operations (SMIO):

Deck Hand Course:

- First Aid.
- Fire-fighting.
- Survival at Sea.
- Occupational Health and Safety
- Seamanship Skills.

The above course only offers the learners skills which will allow them to become licensed to be able to work on board a vessel. It does not prepare them in any way for the other disciplines required to be a competent Deck Hand or Engineer aboard a vessel.

United States: Fort Lauderdale Maritime Professional Training Masters, Mates & Engineers Inc:

Courses:

Lifeboatman/Proficiency in survival Craft and Rescue Boats:

- Survival methods.
- Inflatable liferafts.
- Lifeboats.
- Survival equipment.
- Launching and recovery of life boats
- Shipboard Davit Systems.
- Oar commands.

Automatic Radar Plotting Aids (ARPA):

- Review of Radar Plotting Techniques

- ARPA Theory.
- ARPA Errors and limitations.
- Setting up and maintaining ARPA displays.
- Use of ARPA information to avoid close quarters situations
- Navigation aided by ARPA.

Advanced Fire Fighting:

- Pre-fire planning.
- Rapid response team concept.
- Incident command team.
- Stability considerations during fire fighting operations.
- Fire party organisation.
- Training of the fire party.
- Hazardous materials storage and organisation.
- Inspection and service of fire detection and extinguishing systems and equipment
- Port fire investigation.
- Combating shipboard fire.

The Courses offered by the United States, as with the Australian ones also only cover **certain** aspects of working on board a vessel. They do however place a huge emphasis on the safety aspect of working on board a vessel. It also covers an in-depth knowledge of navigation, which is offered at a higher level in South Africa.

Mumbai, India International Maritime Training Centre:

Practical Deck Skills Workshop:

- Practical training in knots, bends, hitches and splices with synthetic and natural fibre rope
- Practical training in splices with wire rope.
- Surface maintenance theory and procedures.
- General maintenance of deck equipment.

This course does not compare well to this South African qualification as it only focuses on working with ropes and the general maintenance on board a vessel.

New Zealand, New Zealand Qualifications Authority:

National Certificate in Seafood Vessel Operations (Fishing Technology) Level 3, 76 credits.

The first noticeable difference between the South African Qualification and the New Zealand one is the number of credits available for the Qualification. The South African Qualification together with its associated Unit Standards is far more comprehensive. The other difference is that it is pitched at a higher level, which is equivalent to Level 3 on the South African NQF.

The contents of the above international qualifications, courses and modules are reflected clearly in this Qualification's Exit Level Outcomes, in the related Associated Assessment Criteria and in the Unit Standards. It is evident that the international qualifications and the South African qualification have very similar, if not the same, contents. The South African Qualification however offers a more comprehensive range of competencies than any of its international counterparts.

ARTICULATION OPTIONS

Horizontal articulation is possible with:

- ID 23273: National Certificate: Mechanical Engineering Fitting, NQF Level 2.
- ID 23254: National Certificate: Mechanical Engineering Fitting and Machining, NQF Level 2.

Vertical progression is possible with:

- a ID 48535: National Certificate: Maritime Operations, NQF Level 3
- a ID 23274: National Certificate: Mechanical Fitting, NQF Level 3.

MODERATION OPTIONS

- Anyone assessing a learner or moderating the assessment of a learner against this qualification must be registered as an assessor with the relevant ETQA.
- a Any institution offering learning that will enable the achievement of this Qualification must be accredited as a provider with the relevant ETQA.
- Assessment and moderation of assessment will be overseen by the relevant ETQA according to the ETQAs policies and guidelines for assessment and moderation; in **terms** of agreements reached around assessment and moderation between ETQAs (including professional bodies); and in terms of the moderation guideline detailed immediately below.
- Moderation **must** include both internal and external moderation of assessments at exit points of the qualification, unless ETQA policies specify otherwise. Moderation should also encompass achievement of the competence described both in individual unit standards, exit level outcomes as well as the integrated competence described in the qualification.
- Anyone wishing to be assessed against this qualification may apply to be assessed by any assessment agency, assessor or provider institution that is accredited by the relevant ETQA.

CRITERIA FOR THE REGISTRATION OF ASSESSORS

- Relevant qualification at NQF level 3 or higher.
- Minimum of 2 years' experience.
- Registration as an assessor with the relevant ETQA.
- The requisite South African Maritime Safety Authority (SAMSA) licence or equivalent

NOTES

N/A

UNIT STANDARDS

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	120496	Provide risk-based primary emergency care /first aid in the workplace	Level 2	5
Core	114002	Contribute to effective human relationships on board a vessel	Level 2	2
Core	243986	Describe and apply fire prevention and fire fighting aboard ship	Level 2	3
Core	243987	Handle a liferaft during an emergency	Level 2	8
Core	243999	Explain pollution control and safe working practices	Level 3	2
Core	243989	Respond to distress signals and emergencies at sea and in port	Level 3	3
Core	244006	Demonstrate knowledge and understanding of safety techniques aboard ship	Level 2	2
Elective	244010	Demonstrate knowledge of vessel construction and stability	Level 3	8
Elective	243988	Explain machinery spaces, construction and operation of equipment and propelling machinery on seagoing vessels	Level 3	15
Elective	114929	Demonstrate a basic knowledge of commercial fishing methods	Level 2	4
Elective	243990	Catch fish using a pole and gaff	Level 2	2
Elective	243998	Adjust and position crayfish traps	Level 2	3
Elective	114003	Carry out watch keeping duties in the engine room at sea and in port	Level 3	15
Elective	244000	Operate refrigeration equipment on board a vessel	Level 3	10

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Elective	114007	Carry out basic service checks on small vessel marine propulsion system	Level 2	6
Elective	244009	Operate and carry out basic routine servicing of marine extra low and low voltage electrical systems	Level 2	6
Elective	244007	Operate a centrifugal separator in the seagoing maritime industry	Level 2	6
Elective	119744	Select, use and care for engineering hand tools	Level 2	8
Elective	244008	Work on a deep sea commercial fishing vessel	Level 2	10
Elective	8942	Sort and handle raw seafood manually	Level 2	5
Elective	243992	Monitor and control the implementation of safe working practices on a fishing vessel	Level 3	3
Elective	114005	Maintain, prepare, deploy and retrieve fishing nets to land catch	Level 3	8
Elective	113993	Maintain, prepare, deploy and retrieve crayfish traps to land catch	Level 3	6
Elective	243994	Maintain the equipment and vessel to pole fish	Level 2	3
Elective	243997	Jig for squid	Level 2	2
Elective	115072	Identify current legislative and company procedures applicable to the Fishing Industry	Level 2	3
Elective	114006	Follow safe deck practices on a commercial vessel	Level 3	10
Elective	244024	Demonstrate knowledge of net mending and mend a net	Level 2	8
Elective	12219	Select, use and care for engineering power tools	Level 2	6
Elective	244001	Demonstrate an understanding of the Merchant Shipping Collision Regulations	Level 3	3
Elective	243993	Demonstrate an understanding of marine safety information	Level 2	3
Elective	243991	Operate radar equipment	Level 2	4
Elective	243995	Plan and conduct a safe coastal passage	Level 3	8
Elective	243996	Explain and apply safety measures related to fishing operations, fishing gear and fish handling	Level 3	8
Elective	244002	Explain and operate echo sounders, speed logs, global navigation satellite systems and electronic plotters	Level 2	4
Fundamental	119463	Access and use information from texts	Level 2	5
Fundamental	119454	Maintain and adapt oral/signed communication	Level 2	5
Fundamental	119460	Use language and communication in occupational learning programmes	Level 2	5
Fundamental	119456	Write/present for a defined context	Level 2	5
Fundamental	9009	Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems	Level 2	3
Fundamental	7480	Demonstrate understanding of rational and irrational numbers and number systems	Level 2	3
Fundamental	9008	Identify, describe, compare, classify, explore shape and motion in 2-and 3-dimensional shapes in different contexts	Level 2	3
Fundamental	7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	Level 2	2
Fundamental	9007	Work with a range of patterns and functions and solve problems	Level 2	5



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:*Describe and apply fire prevention and fire fighting aboard ship*

SAQA US ID		UNIT STANDARD TITLE	
243986		Describe and apply fire prevention and fire fighting aboard ship	
SGB		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	3

SPECIFIC OUTCOME 1

Describe how to minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire.

SPECIFIC OUTCOME 2

Demonstrate the use of ship-board fire-fighting equipment,

SPECIFIC OUTCOME 3

Extinguish fires using the appropriate method, extinguishing medium, fire-fighting appliances and equipment.

SPECIFIC OUTCOME 4

Navigate safely through darkened, high-expansion foam filled compartment wearing a lifeline

SPECIFIC OUTCOME 5

Navigate safely through a darkened, smoke filled compartment wearing breathing apparatus.

SPECIFIC OUTCOME 6

Conduct a search and rescue in a darkened, smoke-filled compartment



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:*Handle a liferaft during an emergency*

SAQA US ID		UNIT STANDARD TITLE	
243987		Handle a liferaft during an emergency	
SGB		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	8

SPECIFIC OUTCOME 1

Explain the different types of emergencies at sea and types of resources, equipment and methods to abandon ship.

SPECIFIC OUTCOME 2

Explain ship abandonment procedures.

SPECIFIC OUTCOME 3

Board a liferaft.

SPECIFIC OUTCOME 4

Explain the management of survivors and liferaft after abandoning ship.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Explain machinery spaces, construction and operation of equipment and propelling machinery on seagoing vessels

SAQA US ID	UNIT STANDARD TITLE		
243988	Explain machinery spaces, construction and operation of equipment and propelling machinery on seagoing vessels		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	15

SPECIFIC OUTCOME 1

Identify ships machinery and systems

SPECIFIC OUTCOME 2

Explain the basic construction and operation of the ship's diesel engines

SPECIFIC OUTCOME 3

Explain the basic construction and operation of the ship's refrigeration system

SPECIFIC OUTCOME 4

Explain the basic construction and operation of the ship's main engineering pumping system.

SPECIFIC OUTCOME 5

Explain the basic construction and operation of the ship's steering gear.

SPECIFIC OUTCOME 6

Explain the basic construction and operation of the ship's electrical systems



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Respond to distress signals and emergencies at sea and in port***

SAQA US ID	UNIT STANDARD TITLE		
243989	Respond to distress signals and emergencies at sea and in port		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	3

SPECIFIC OUTCOME 1

Explain the measures to be taken in emergencies for the protection and safety of ship, passengers and crew.

SPECIFIC OUTCOME 2

Explain how to respond to emergencies and distress signals at sea

SPECIFIC OUTCOME 3

Respond to emergencies in port

SPECIFIC OUTCOME 4

Explain emergency steering systems

SPECIFIC OUTCOME 5

Explain the area of operation and procedures of the South African Search and Rescue (SASAR) operation.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:*Catch fish using a pole and gaff*

SAQA US ID		UNIT STANDARD TITLE	
243990		Catch fish using a pole and gaff	
SGB		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	2

SPECIFIC OUTCOME 1

Use equipment to catch fish

SPECIFIC OUTCOME 2

Contain the catch.

SPECIFIC OUTCOME 3

Sort the catch.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:**Operate radar equipment**

SAQA US ID		UNIT STANDARD TITLE	
243991		Operate radar equipment	
SGB		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	4

SPECIFIC OUTCOME 1

Set-up radar equipment.

SPECIFIC OUTCOME 2

Use radar as an aid to navigation

SPECIFIC OUTCOME 3

Use radar for collision avoidance.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

SAQA <i>US</i> ID	UNITSTANDARD TITLE		
243992	Monitor and control the implementation of safe working practices on a fishing vessel		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	3

SPECIFIC OUTCOME 1

Describe the legislation and safe working practices that are applicable on a fishing vessel.

SPECIFIC OUTCOME 2

Describe and apply basic safety principles and the philosophy of accident prevention.

SPECIFIC OUTCOME 3

Describe the roles and responsibilities of those employees involved in safety management on a fishing vessel.

SPECIFIC OUTCOME 4

Describe how routine inspections are conducted on a fishing vessel,

SPECIFIC OUTCOME 5

Describe how safety is implemented and conducted to specific investigations on a fishing vessel.

SPECIFIC OUTCOME 6

Describe the process of compiling and writing inspection and incident reports.

SPECIFIC OUTCOME 7

Describe the safety aspect review and follow up activities for the safety on fishing vessels

SPECIFIC OUTCOME 8

Apply the requirements of the Merchant Shipping Act 57 of 1951 in respect to occupational safety on fishing vessels.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate an understanding of marine safety information

SAQA US ID	UNIT STANDARD TITLE		
243993	Demonstrate an understanding of marine safety information		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	3

SPECIFIC OUTCOME 1

Interpret information.

SPECIFIC OUTCOME 2

Explain the different types of signals, means of transmission and action required.

SPECIFIC OUTCOME 3

Use the International Code of Signals



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:**Maintain the equipment and vessel to pole fish**

SAQA US ID		UNIT STANDARD TITLE	
243994		Maintain the equipment and vessel to pole fish	
SGB		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	3

SPECIFIC OUTCOME 1

Prepare the equipment to pole fish.

SPECIFIC OUTCOME 2

Prepare the vessel to pole fish

SPECIFIC OUTCOME 3

Maintain equipment for pole catch.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Plan and conduct a safe coastal passage

SAQA US ID	UNIT STANDARD TITLE		
243995	Plan and conduct a safe coastal passage		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	8

SPECIFIC OUTCOME 1

Determine the ship's position on a chart.

SPECIFIC OUTCOME 2

Determine safe courses between two positions on a chart

SPECIFIC OUTCOME 3

Explain the content, application and intent of the International Regulations for Preventing Collisions at Sea.

SPECIFIC OUTCOME 4

Keep a navigational watch.

SPECIFIC OUTCOME 5

Monitor a passage along a planned route.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Explain and apply safety **measures** related to fishing operations, fishing gear and fish handling

SAQA US ID		UNIT STANDARD TITLE	
243996		Explain and apply safety measures related to fishing operations, fishing gear and fish handling	
SGB		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	8

SPECIFIC OUTCOME 1

Prepare a ship and equipment for fishing operations

SPECIFIC OUTCOME 2

Explain the process of handling fishing gear.

SPECIFIC OUTCOME 3

Describe general safety procedures during fishing operations.

SPECIFIC OUTCOME 4

Explain the process of handling fishing gear and catch stowage



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:*Jig for squid*

SAQA US ID	UNIT STANDARD TITLE		
243997	Jig for squid		
SGB			PROVIDER
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	2

SPECIFIC OUTCOME 1

Implement safe working practices

SPECIFIC OUTCOME 2

Catch squid.

SPECIFIC OUTCOME 3

Contain the catch.

SPECIFIC OUTCOME 4

Sort the catch.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Adjust and position crayfish traps

SAQA US ID	UNIT STANDARD TITLE		
243998	Adjust and position crayfish traps		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	3

SPECIFIC OUTCOME 1

Implement safe working practices.

SPECIFIC OUTCOME 2

Organise a work area to adjust the crayfish traps

SPECIFIC OUTCOME 3

Adjust crayfish trap components to optimise the catch

SPECIFIC OUTCOME 4

Position traps to optimise the catch.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

SAQA US ID	UNIT STANDARD TITLE		
243999	Explain pollution control and safe working practices		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	2

SPECIFIC OUTCOME 1

Explain the precautions required to prevent pollution to the marine environment.

SPECIFIC OUTCOME 2

Explain the Code of Safe Working Practice for Fishermen (COSWPFF).

SPECIFIC OUTCOME 3

Describe safety precautions on board ship



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Operate refrigeration equipment on board a vessel***

SAQA US ID	UNIT STANDARD TITLE		
244000	Operate refrigeration equipment on board a vessel		
SGB		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	10

SPECIFIC OUTCOME 1

Demonstrate knowledge of refrigeration equipment encountered on board the vessel

SPECIFIC OUTCOME 2

Operate refrigeration equipment

SPECIFIC OUTCOME 3

Identify and respond to deviations from normal operating conditions



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate an understanding of the Merchant Shipping Collision Regulations

SAQA US ID	UNIT STANDARD TITLE		
244001	Demonstrate an understanding of the Merchant Shipping Collision Regulations		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	3

SPECIFIC OUTCOME 1

Explain the terms, definitions and rules reflected in the International Regulations for Preventing Collisions at Sea.

SPECIFIC OUTCOME 2

Explain the conduct of vessels in any condition of visibility.

SPECIFIC OUTCOME 3

Explain the conduct of vessels in sight of one another

SPECIFIC OUTCOME 4

Explain the conduct of vessels in restricted visibility.

SPECIFIC OUTCOME 5

Explain the required Lights and Shapes to be exhibited by different types of vessels



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Explain and operate echo sounders, speed logs, global navigation satellite systems and electronic plotters

SAQA US ID	UNIT STANDARD TITLE		
244002	Explain and operate echo sounders, speed logs, global navigation satellite systems and electronic plotters		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS

SPECIFIC OUTCOME 1

Explain navigational aids

SPECIFIC OUTCOME 2

Use a Global Navigation Satellite System.

SPECIFIC OUTCOME 3

Use electronic plotters as an aid to navigation



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate knowledge and understanding *of* safety techniques aboard ship

SAQA US ID	UNIT STANDARD TITLE		
244006	Demonstrate knowledge and understanding of safety techniques aboard ship		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport. Operations and Logistics		
ABET BAND	UNITSTANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	2

SPECIFIC OUTCOME 1

Explain elementary safety matters, safety information symbols and alarms signals.

SPECIFIC OUTCOME 2

Explain actions appropriate to a ship-board emergency signal in accordance with assigned duties.

SPECIFIC OUTCOME 3

Explain actions to be taken on encountering an accident or other medical emergency

SPECIFIC OUTCOME 4

Explain the operation of fire, weather-tight and watertight doors.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:*Operate a centrifugal separator in the seagoing maritime industry*

SAQA US ID		UNIT STANDARD TITLE	
244007		Operate a centrifugal separator in the seagoing maritime industry	
SGB		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNITSTANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	6

SPECIFIC OUTCOME 1

Demonstrate an understanding of separating liquids and solids using centrifugal force.

SPECIFIC OUTCOME 2

Prepare to separate liquids and solids.

SPECIFIC OUTCOME 3

Separate liquids and solids using centrifugal force.

SPECIFIC OUTCOME 4

Perform end of separation procedures.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

SAQA US ID	UNIT STANDARD TITLE		
244008	Work on a deep sea commercial fishing vessel		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNITSTANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	10

SPECIFIC OUTCOME 1

Describe the relevant legislated documentation required by a crew member on a deep sea commercial fishing vessel.

SPECIFIC OUTCOME 2

Describe safe working practices on a deep sea commercial fishing vessel

SPECIFIC OUTCOME 3

Follow safe working procedures on a deep sea commercial fishing vessel.

SPECIFIC OUTCOME 4

Participate as a crew member of a deep sea commercial fishing vessel



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Operate and carry out basic routine servicing of marine extra low and low voltage electrical systems

SAQA US ID		UNIT STANDARD TITLE	
244009		Operate and carry out basic routine servicing of marine extra low and low	
SGB		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	6

SPECIFIC OUTCOME 1

Demonstrate knowledge of Marine extra low and low voltage electrical systems.

SPECIFIC OUTCOME 2

Operate extra low and low voltage electrical systems.

SPECIFIC OUTCOME 3

Operate and carry out basic servicing of starter motors, alternators and associated equipment.

SPECIFIC OUTCOME 4

Follow safety and hazard control procedures.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Demonstrate knowledge of vessel construction and stability***

SAQA USID	UNIT STANDARD TITLE		
244010	Demonstrate knowledge of vessel construction and stability		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	8

SPECIFIC OUTCOME 1

Identify the principal parts and fittings of a vessel.

SPECIFIC OUTCOME 2

Describe vessel stability and safety terminology

SPECIFIC OUTCOME 3

Explain vessel stability and safety requirements

SPECIFIC OUTCOME 4

Explain stowage safety requirements.

SPECIFIC OUTCOME 5

Describe the types of vessels in operation

SPECIFIC OUTCOME 6

Describe systems on a vessel

SPECIFIC OUTCOME 7

Explain the need to maintain the watertight integrity of the vessel.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate knowledge of net mending and mend a net

SAQA US ID	UNIT STANDARD TITLE		
244024	Demonstrate knowledge of net mending and mend a net		
SGB	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	8

SPECIFIC OUTCOME 1

Explain materials used in net mending.

SPECIFIC OUTCOME 2

Explain tools used in net mending

SPECIFIC OUTCOME 3

Demonstrate knowledge of methods used in net mending

SPECIFIC OUTCOME 4

Mend a damaged net.