

No. 612

29 May 2009

**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.saqqa.org.za. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the Qualification and Unit Standards should reach SAQA at the address below and **no later than 29 June 2009**. All correspondence should be marked **Standards Setting – SGB for Maritime Operations** and addressed to

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SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION: *National Certificate: Inshore Maritime Operations*

SAQA QUAL ID	QUALIFICATION TITLE		
67329	National Certificate: Inshore Maritime Operations		
ORIGINATOR			PROVIDER
SGB Maritime Operations			
QUALIFICATION TYPE	FIELD	SUBFIELD	
National Certificate	11 - Services	Transport, Operations and Logistics	
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUAL CLASS
Undefined	130	Level 3	Regular-Unit Stds Based

This qualification does not replace any other qualification and is not replaced by another qualification.

PURPOSE AND RATIONALE OF THE QUALIFICATION

Purpose:

This Qualification is aimed at people who work or intend to work on board a vessel and who seek recognition for essential skills in Inshore Operations. In particular, this Qualification will be useful for the following categories:

- Master of a fishing vessel of less than 24 metres in length operating in limited waters.
- Officer in charge of navigational watch on fishing vessels of 24 metres or more in length operating in limited or unlimited waters.
- Chief engineer officer of a fishing vessel of less than 750 kW propulsion power.
- Second engineer officer of a fishing vessel of less than 2000kW propulsion power.
- Officer in charge of an engineering watch on fishing vessels of any kilowatt propulsion power.
- Chief engineer officer of a vessel of less than 350kW propulsion power operating in a port operations area.
- Second engineer officer of a vessel of 1500kW propulsion power or more operating in a port operations area.
- Chief engineer officer of a vessel of less than 350 kW propulsion power on near coastal voyages.
- Second engineer officer of a vessel of less than 750 kW propulsion power on near coastal voyages.
- Officer in charge of an engineering watch on vessels of less than 750 kW propulsion power on unlimited voyages.

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 inshore.

Learners will be able to:

- Contribute to safety and emergency related matters when working on a vessel.
- Apply maritime pollution and safety legislation and company procedures.
- Conduct support functions on board a sea going vessel.

Rationale:

Inshore maritime operations is a priority area within the South African context as it provides jobs to many people involved in the fishing and shipping industry and is regulated 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 this 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 functions under fishing, deck or engine room operations.

This Qualification is the second in the learning pathway and will give candidates working in the maritime industry and 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 maritime industry.

RECOGNIZE PREVIOUS LEARNING?

Y

LEARNING ASSUMED IN PLACE

- Communication at NQF Level 2.
- Mathematical Literacy at NQF Level 2.

Access to the Qualification:

Access is open to all learners who completed the South African Maritime Safety Authority (SAMSA) pre-sea familiarisation programme.

QUALIFICATION RULES

The Qualification consists of a Fundamental, a Core and an Elective Component.

To be awarded the Qualification learners are required to obtain a minimum of 130 credits as detailed below.

Fundamental Component

The Fundamental Component consists of Unit Standards in:

- Mathematical Literacy at Level 3 to the value of 16 credits
- Communication at Level 3 to the value of 20 credits

All Unit Standards in the Fundamental Component are compulsory.

Core Component

The Core Component consists of Unit Standards to the value of 43 credits all of which are compulsory.

Elective Component

The Elective Component consists of Unit Standards in a number of specialisations each with its own set of Unit Standards. Learners are to choose a specialisation area and Elective Unit Standards at least to the value of 51 Credits. The specialisations are as follows:

Deck:

- ID 264856: Carry out fire fighting management activities on a sea going vessel, Level 3 , 4 Credits .
- ID 26863: Conduct a safe passage using radar, Level 3, 4 Credits.
- ID 243993: Demonstrate an understanding of Marine Safety information, Level 2, 3 Credits.

- ID 244001: Demonstrate an understanding of the Merchant Shipping Collision Regulations, Level 3, 3 Credits.
- ID 264878: Explain flotation, buoyancy, stability and the centre of gravity with reference to a sea going vessel, Level 3, 3 Credits.
- ID 264881: Explain the working and operation of on board machinery and propulsion systems on a sea going vessel, Level 3, 8 Credits.
- ID 264914: Manoeuvre a sea going vessel at sea and in port under different situations and conditions, Level 3, 8 Credits.
- ID 264887: Outline the specific parts of the hull structure and fittings on a sea going vessel, Level 3, 5 Credits.
- ID 264884: Perform specific navigating activities while on a coastal passage, Level 3, 3 Credits.
- ID 264876: Plan and conduct a safe passage when nearing specific approaches under different weather conditions, Level 3, 4 Credits.
- ID 264855: React to emergencies and distress signals at sea and in port, Level 4, 3 Credits.
- ID 264877: Take command of a sea going vessel, Level 3, 7 Credits.
- ID 264880: Use shipboard meteorological instruments on a sea going vessel, Level 3, 4 Credits.

Engineering:

- ID 264885: Carry out marine diesel and fuel oil bunkering activities, Level 3, 6 Credits.
- ID 264889: Cut, form and shape sheet metal, Level 3, 8 Credits.
- ID 116450: Demonstrate a broad understanding of pneumatic and hydraulic systems and concepts, Level 3, 4 Credits.
- ID 264854: Explain the construction and operation of diesel engines of sea going vessels, Level 3, 6 Credits.
- ID 262178: Explain the operation of the vapour compression refrigeration cycle, identify and explain the operation of the components and the associated controls, safety devices and defrost systems, Level 4, 6 Credits.
- ID 264859: Explain the specific operation and maintenance activities required in the engineering department on board a vessel, Level 3, 5 Credits.
- ID 244000: Operate refrigeration equipment on board a vessel, Level 3, 10 Credits.
- ID 264888: Perform specific watchkeeping competencies, Level 3, 8 Credits.
- ID 14682: Prepare and assemble welding equipment related to welding process, Level 2, 5 Credits.
- ID 119744: Select, use and care for engineering hand tools, Level 2, 8 Credits.
- ID 12219: Select, use and care for engineering power tools, Level 2, 6 Credits.
- ID 243063: Weld carbon steel work-pieces using the shielded metal arc welding process in the down hand position, Level 2, 15 Credits.
- ID 243072: Weld work-pieces using the oxy-acetylene gas welding process in the down hand position, Level 2, 10 Credits.

Fishing:

- ID 26883: Construct and repair a fishing net for commercial fishing, Level 4, 9 Credits.
- ID 264879: Deal with the performance of the trawl assembly during fishing activities, Level 3, 8 Credits.
- ID 264894: Demonstrate an understanding of responsible fishing measures, Level 3, 5 Credits.
- ID 243996: Explain and apply safety measures related to fishing operations, fishing gear and fish handling, Level 3, 8 Credits.
- ID 26886: Explain responsible fishing measures, Level 2, 3 Credits.
- ID 264875: Operate fishing technology used to monitor the fish and fishing equipment, Level 3, 7 Credits.
- ID 264858: Plan, conduct and review a fishing trip, Level 4, 10 Credits.

Co-ordinating Fleet Vessels:

- ID 119837, Conduct clearing of vessels for arrival and departure, Level 4, 4
- ID 119839, Conduct communications between shore and sea, Level 4, 6
- ID 119842, Coordinate performance, maintenance and repairs, Level 4, 12
- ID 119848, Coordinate safety management of vessels alongside quay, Level 4, 9
- ID 119847, Demonstrate an understanding of fishing related technology, Level 4, 12
- ID 119846, Demonstrate an understanding of ships and related functions, Level 4, 7
- ID 119845, Discharge product from vessel, Level 4, 8
- ID 119838, Provide weather information relating to fishing, Level 4, 6
- ID 119840, Conduct vessel administration activities, Level 4, 12
- ID 119841, Manage fishing operations at shore, Level 4, 12
- ID 119843, Prepare nets for fishing operations, Level 3, 12

EXIT LEVEL OUTCOMES

1. Contribute to safety and emergency related matters when working on a vessel.
2. Apply maritime pollution and safety legislation and company procedures.
3. Conduct support functions on board a sea going vessel.

ASSOCIATED ASSESSMENT CRITERIA

The outcomes are specified in terms of a combination of Specific and Critical Cross-Field Outcomes as defined in the different unit standards. On achieving this Qualification, a Learner is able to:

Associated Assessment Criteria for Exit Level Outcome 1:

- First aid is applied on board a vessel in accordance with regulated requirements.
- Fire fighting and prevention procedures are carried out to ensure the safety of self and others onboard a vessel.
- Life-raft activities are carried out in accordance with regulated requirements.

Associated Assessment Criteria for Exit Level Outcome 2:

- An environmental policy implementation plan is compiled to ensure compliance with maritime legislation and shipboard policies and practices.
- Duties are performed to prevent pollution.
- A pollution situation is dealt with in terms of maritime legislation and shipboard practices.

Associated Assessment Criteria for Exit Level Outcome 3:

- The management of people on board a vessel is understood and implemented in accordance with maritime legislation and shipboard practices.
- Vessel construction and stability is understood in order to operate a vessel in a safe manner.

Integrated Assessment:

The term 'Integrated Assessment' implies that theoretical and practical components should be assessed together and that more than one competency, assessment criterion and specific outcome should be assessed together, where possible. During integrated assessments the assessor should make use of formative and summative assessment methods and assess combinations of practical, applied, foundational and reflective competencies.

Assessment of communication and mathematical literacy should be integrated as far as possible with other aspects and should use authentic inshore maritime operational contexts wherever possible. A variety of methods must be used in assessment and tools and activities must be appropriate to the context in which the learner is working or will work.

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.

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 time gaining evidence of integration.

Where it is not possible to assess the learner in the workplace or on-the-job, simulations, case studies, role-plays and other similar techniques should be used to provide a context appropriate to the assessment.

INTERNATIONAL COMPARABILITY

An Inshore Maritime Operation is an area with globally recognised best practices, standards and Qualifications. This Qualification and set of Unit Standards utilises international and locally recognised best practice and standards.

The International Convention for Standards for Training and Certification and 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. All the countries shown below were used because they are all party to the International Convention for Standards for Training and Certification and Watchkeeping for Fishing Vessel Personnel (STCW-F) was adopted in July 1995.

Papua New Guinea - National Fisheries College:

Certificate in Fishing Operations 1 (CFO1):

A course for deckhand Qualifications for fishing boat crews:

- Basis skills required for employment as qualified deckhands on fishing boats.
- Safe working practices, safety at seas, radio operations, deck skills, fish quality and handling.
- Team work, discipline and understanding the chain of command at sea.

Certificate in Small Fishing Operations 1 and 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 that are more specifically based on the Fishing Specific Elective category as well as the use of radio's and safety issues. These Qualifications also emphasise the importance of discipline and team work aboard a vessel.

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 and 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.
- Automatic Radar Plotting Aids (ARPA) Theory.
- Automatic Radar Plotting Aids (ARPA) Errors and limitations.
- Setting up and maintaining Automatic Radar Plotting Aids (ARPA) displays.
- Use of Automatic Radar Plotting Aids (ARPA) information to avoid close quarters situations.
- Navigation aided by Automatic Radar Plotting Aids (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.

India-International Maritime Training Centre (Mumbai):

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 its South African counter part 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. It goes without saying that 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 offered at NQF Level 3 in South Africa.

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. Again it is clear that the South African Qualification offers a more comprehensive coverage than any of its international counterparts.

ARTICULATION OPTIONS

Horizontal articulation is possible with:

- ID 48535: National Certificate: Maritime Operations, NQF Level 3.
- ID 59669: National Certificate: Mechanical Engineering: Fitting, NQF Level 3.

Vertical progression is possible with:

- ID 49155: Further Education and Training Certificate: Shipping, NQF Level 4.
- ID 65875: Further Education and Training Certificate: Engineering Skills: Mechanical Fitting and Plant Maintenance, NQF Level 4.
- ID 59709: Further Education and Training Certificate: Mechanical Engineering: Fitting, NQF Level 4.

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.
- 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 ETQA's policies and guidelines for assessment and moderation; in terms of agreements

reached around assessment and moderation between ETQA's (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

Assessors registered with TETA and/or SAMSA must carry out the assessment of candidates for any of the unit standards that make up this Qualification. The following criteria are specified for assessors concerning the technical aspects of the Qualification:

- Relevant Qualification at NQF Level 4 or higher.
- Minimum of 2 years' experience.
- Registration as an assessor with the relevant ETQA.
- Assessors must be registered SAMSA assessors.
- Have the requisite SAMSA licence.

NOTES

N/A

UNIT STANDARDS

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Fundamental	119472	Accommodate audience and context needs in oral/signed communication	Level 3	5
Fundamental	9010	Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations	Level 3	2
Fundamental	9013	Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	Level 3	4
Fundamental	119457	Interpret and use information from texts	Level 3	5
Fundamental	9012	Investigate life and work related problems using data and probabilities	Level 3	5
Fundamental	119467	Use language and communication in occupational learning programmes	Level 3	5
Fundamental	7456	Use mathematics to investigate and monitor the financial aspects of personal, business and national issues	Level 3	5
Fundamental	119465	Write/present/sign texts for a range of communicative contexts	Level 3	5
Core	264874	Demonstrate proficiency in survival craft activities	Level 2	7
Core	243986	Describe and apply fire prevention and fire fighting aboard ship	Level 2	3
Core	13912	Apply knowledge of self and team in order to develop a plan to enhance team performance	Level 3	5
Core	244010	Demonstrate knowledge of vessel construction and stability	Level 3	8
Core	264959	Explain and deal with oil spills and environmental safety at sea	Level 3	2
Core	243999	Explain pollution control and safe working practices	Level 3	2
Core	244181	Perform hand over and take over responsibilities	Level 3	2
Core	254220	Provide primary emergency care/first aid as an advanced first responder	Level 3	8
Core	243989	Respond to distress signals and emergencies at sea and in port	Level 3	3
Core	9533	Use communication skills to handle and resolve conflict in the workplace	Level 3	3

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Elective	243993	Demonstrate an understanding of marine safety information	Level 2	3
Elective	264882	Demonstrate personal safety and social responsibilities at sea	Level 2	2
Elective	264860	Demonstrate personal survival techniques in the event of ship abandonment	Level 2	2
Elective	264886	Explain responsible fishing measures	Level 2	3
Elective	14682	Prepare and assemble welding equipment related to welding processes	Level 2	5
Elective	119744	Select, use and care for engineering hand tools	Level 2	8
Elective	12219	Select, use and care for engineering power tools	Level 2	6
Elective	243063	Weld carbon steel work-pieces using the shielded metal arc welding process in the down-hand position.	Level 2	15
Elective	243072	Weld workpieces using the oxy-acetylene gas welding process in the downhand position	Level 2	10
Elective	264856	Carry out fire fighting management activities on a sea going vessel	Level 3	4
Elective	264885	Carry out marine diesel and fuel oil bunkering activities	Level 3	6
Elective	264863	Conduct a safe passage using radar	Level 3	4
Elective	119844	Conduct maritime rigging operations	Level 3	8
Elective	264889	Cut, form and shape sheet metal	Level 3	8
Elective	264879	Deal with the performance of the trawl assembly during fishing activities	Level 3	8
Elective	116450	Demonstrate a broad understanding of pneumatic and hydraulic systems and concepts	Level 3	4
Elective	264894	Demonstrate an understanding of responsible fishing	Level 3	5
Elective	244001	Demonstrate an understanding of the Merchant Shipping Collision Regulations	Level 3	3
Elective	243996	Explain and apply safety measures related to fishing operations, fishing gear and fish handling	Level 3	8
Elective	264878	Explain flotation, buoyancy, stability and the centre of gravity with reference to a sea going vessel	Level 3	3
Elective	264854	Explain the construction and operation of diesel engines of sea going vessels	Level 3	6
Elective	264859	Explain the specific operation and maintenance activities required in the engineering department on board a vessel	Level 3	5
Elective	264881	Explain the working and operation of on board machinery and propulsion systems on a sea going vessel	Level 3	7
Elective	264914	Manoeuvre a sea going vessel at sea and in port	Level 3	8
Elective	264875	Operate fishing technology used to monitor fish and fishing equipment	Level 3	7
Elective	244000	Operate refrigeration equipment on board a vessel	Level 3	10
Elective	264887	Outline the specific parts of the hull structure and fittings on a sea going vessel	Level 3	5
Elective	264884	Perform specific navigating activities while on a coastal passage	Level 3	4
Elective	264888	Perform specific watchkeeping activities	Level 3	8
Elective	264876	Plan and conduct a safe passage when nearing specific approaches under different weather conditions	Level 3	4
Elective	119843	Prepare nets for fishing operations	Level 3	12
Elective	264877	Take command of a sea going vessel	Level 3	7
Elective	264880	Use shipboard meteorological instruments on a fishing vessel	Level 3	4
Elective	119837	Conduct clearing of vessels for arrival and departure	Level 4	4
Elective	119839	Conduct communications between shore and sea	Level 4	6
Elective	119840	Conduct vessel administration activities	Level 4	12
Elective	264883	Construct and repair fishing nets for commercial fishing	Level 4	9
Elective	119842	Coordinate performance, maintenance and repairs	Level 4	12
Elective	119848	Coordinate safety management of vessels alongside quay	Level 4	9
Elective	119847	Demonstrate an understanding of fishing related technology	Level 4	12
Elective	119846	Demonstrate an understanding of ships and related functions	Level 4	7
Elective	119845	Discharge product from vessel	Level 4	8
Elective	262178	Interpret the effect of operating conditions on components, safety and control devices	Level 4	6
Elective	119841	Manage fishing operations at shore	Level 4	12

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Elective	264858	Plan, conduct and review a fishing trip	Level 4	10
Elective	119836	Provide provisions, services and crew to meet vessel needs	Level 4	4
Elective	119838	Provide weather information relating to fishing	Level 4	6
Elective	264855	React to emergencies and distress signals at sea, and in port	Level 4	3

LEARNING PROGRAMMES RECORDED AGAINST THIS QUALIFICATION**None**



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Explain the construction and operation of diesel engines of sea going vessels

SAQA US ID	UNIT STANDARD TITLE		
264854	Explain the construction and operation of diesel engines of sea going vessels		
ORIGINATOR		PROVIDER	
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	6

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Explain the working principles and constructional details of marine diesel engines.

SPECIFIC OUTCOME 2

Explain the operation and maintenance of marine diesel engines.

SPECIFIC OUTCOME 3

Explain the properties of fuel and lubricating oils used in marine diesel engines.

SPECIFIC OUTCOME 4

Explain the manufacture of various machinery components.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

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

SAQA US ID	UNIT STANDARD TITLE		
264855	React to emergencies and distress signals at sea, and in port		
ORIGINATOR		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 4	3

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Explain how beaching, grounding, re-floating, collisions and the impairment of watertight integrity are managed.

SPECIFIC OUTCOME 2

Explain in detail how an emergency situation will be managed.

SPECIFIC OUTCOME 3

Identify and explain the management role of the international and national maritime organizations that deal with emergencies and distress signals.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Carry out fire fighting management activities on a sea going vessel***

SAQA US ID	UNIT STANDARD TITLE		
264856	Carry out fire fighting management activities on a sea going vessel		
ORIGINATOR	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	4

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Describe the control of fire fighting operations on board ship.

SPECIFIC OUTCOME 2

Describe emergency procedures on board ship.

SPECIFIC OUTCOME 3

Organise and train fire parties.

SPECIFIC OUTCOME 4

Inspect and maintain fire fighting equipment.

SPECIFIC OUTCOME 5

Investigate and compile reports on incidents involving shipboard fires.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:*Plan, conduct and review a fishing trip*

SAQA US ID	UNIT STANDARD TITLE		
264858	Plan, conduct and review a fishing trip		
ORIGINATOR	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 4	10

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Prepare the vessel and crew for sea.

SPECIFIC OUTCOME 2

Plan a fishing trip.

SPECIFIC OUTCOME 3

Conduct daily fishing activity.

SPECIFIC OUTCOME 4

Review daily fishing activity.

SPECIFIC OUTCOME 5

Review fishing trip.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Explain the specific operation and maintenance activities required in the engineering department on board a vessel

SAQA US ID	UNIT STANDARD TITLE		
264859	Explain the specific operation and maintenance activities required in the engineering department on board a vessel		
ORIGINATOR		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	5

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Explain the construction details and maintenance of pressure vessels.

SPECIFIC OUTCOME 2

Explain the safe and efficient operation and maintenance of auxiliary boilers.

SPECIFIC OUTCOME 3

Explain the constructional details and working principle of air compressors.

SPECIFIC OUTCOME 4

Explain the safe operation and maintenance of deck machinery.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Demonstrate personal survival techniques in the event of ship abandonment***

SAQA US ID	UNIT STANDARD TITLE		
264860	Demonstrate personal survival techniques in the event of ship abandonment		
ORIGINATOR			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

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Describe emergencies at sea and survival principles.

SPECIFIC OUTCOME 2

Demonstrate the use of life-saving appliances.

SPECIFIC OUTCOME 3

Demonstrate liferaft boarding activities.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Core	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Conduct a safe passage using radar***

SAQA US ID	UNIT STANDARD TITLE		
264863	Conduct a safe passage using radar		
ORIGINATOR		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	4

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Set up and evaluate the performance of radar.

SPECIFIC OUTCOME 2

Operate, interpret and analyse information obtained from radar with reference to the movement of other vessels in the area.

SPECIFIC OUTCOME 3

Use radar as an aid to avoid collisions.

SPECIFIC OUTCOME 4

Use radar in blind pilotage circumstances.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Demonstrate proficiency in survival craft activities***

SAQA US ID	UNIT STANDARD TITLE		
264874	Demonstrate proficiency in survival craft activities		
ORIGINATOR		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	7

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Perform activities related to the launching and boarding of a survival craft.

SPECIFIC OUTCOME 2

Explaining how to survive at sea in the event of ship abandonment.

SPECIFIC OUTCOME 3

Describe the construction of survival craft.

SPECIFIC OUTCOME 4

Handle survival craft.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:**Operate fishing technology used to monitor fish and fishing equipment**

SAQA US ID	UNIT STANDARD TITLE		
264875	Operate fishing technology used to monitor fish and fishing equipment		
ORIGINATOR	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	7

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Identify the types of fishing technology/equipment involved.

SPECIFIC OUTCOME 2

Prepare the fishing technology/equipment for use.

SPECIFIC OUTCOME 3

Operate and interpret the technology while conducting fishing operations.

SPECIFIC OUTCOME 4

Perform routine maintenance activities.

SPECIFIC OUTCOME 5

Perform routine fault finding activities.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Plan and conduct a safe passage when nearing specific approaches under different weather conditions

SAQA US ID	UNIT STANDARD TITLE		
264876	Plan and conduct a safe passage when nearing specific approaches under different weather conditions		
ORIGINATOR		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	4

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Explain and demonstrate the use and maintenance of navigational charts and nautical publications.

SPECIFIC OUTCOME 2

Explain the broad principles and use of conventional magnetic and gyro compasses.

SPECIFIC OUTCOME 3

Plan a safe coastal passage.

SPECIFIC OUTCOME 4

Conduct a safe coastal passage.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Take command of a sea going vessel

SAQA US ID	UNIT STANDARD TITLE		
264877	Take command of a sea going vessel		
ORIGINATOR		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	7

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Take ultimate leadership role of a vessel.

SPECIFIC OUTCOME 2

Explain seaworthiness, ship safety and assistance to vessels in distress.

SPECIFIC OUTCOME 3

Deal with dangers to navigation and the environment.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Explain flotation, buoyancy, stability and the centre of gravity with reference to a sea going vessel

SAQA US ID	UNIT STANDARD TITLE		
264878	Explain flotation, buoyancy, stability and the centre of gravity with reference to a sea going vessel		
ORIGINATOR			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

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Describe the concepts/principles of flotation and displacement.

SPECIFIC OUTCOME 2

Describe the concepts and principles of buoyancy and reserve buoyancy.

SPECIFIC OUTCOME 3

Describe the concepts and principles of stability.

SPECIFIC OUTCOME 4

Describe the movement of the centre of gravity (G).

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:*Deal with the performance of the trawl assembly during fishing activities*

SAQA US ID	UNIT STANDARD TITLE		
264879	Deal with the performance of the trawl assembly during fishing activities		
ORIGINATOR	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

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Organise the trawl deck work area.

SPECIFIC OUTCOME 2

Adjust trawl components to optimise the catch.

SPECIFIC OUTCOME 3

Retrieve trawls.

SPECIFIC OUTCOME 4

Land, contain and sort the catch.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Use shipboard meteorological instruments on a fishing vessel

SAQA US ID	UNIT STANDARD TITLE		
264880	Use shipboard meteorological instruments on a fishing vessel		
ORIGINATOR		PROVIDER	
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	4

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Explain weather terminology.

SPECIFIC OUTCOME 2

Describing cold fronts and depressions.

SPECIFIC OUTCOME 3

Describing local seasonal weather and sea conditions.

SPECIFIC OUTCOME 4

Using shipboard meteorological instruments.

SPECIFIC OUTCOME 5

Identifying the various sources of local weather information.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Explain the working and operation of on board machinery and propulsion systems on a sea going vessel

SAQA US ID	UNIT STANDARD TITLE		
264881	Explain the working and operation of on board machinery and propulsion systems on a sea going vessel		
ORIGINATOR		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	7

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Describe the construction and operation of marine power plants and auxiliary machinery and systems.

SPECIFIC OUTCOME 2

Describe the construction and operation of steering gear.

SPECIFIC OUTCOME 3

Describe the construction and operation of generators, alternators and electrical distribution systems.

SPECIFIC OUTCOME 4

Describe the construction and operation of oily-water separators and oil filtering equipment.

SPECIFIC OUTCOME 5

Describe the construction and operation of the deck machinery.

SPECIFIC OUTCOME 6

Describe the construction and operation of hydraulic systems.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate personal safety and social responsibilities at sea

SAQA US ID	UNIT STANDARD TITLE		
264882	Demonstrate personal safety and social responsibilities at sea		
ORIGINATOR		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

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Take action when encountering an emergency.

SPECIFIC OUTCOME 2

Describe precautions to prevent pollution of the marine environment.

SPECIFIC OUTCOME 3

Observe safe working practices.

SPECIFIC OUTCOME 4

Describe effective relationships on board ship.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Core	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Construct and repair fishing nets for commercial fishing

SAQA US ID	UNIT STANDARD TITLE		
264883	Construct and repair fishing nets for commercial fishing		
ORIGINATOR	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 4	9

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Plan the construction of a net.

SPECIFIC OUTCOME 2

Cut netting to produce net panels.

SPECIFIC OUTCOME 3

Assemble net panels, lines and wires.

SPECIFIC OUTCOME 4

Prepare netting material for repair.

SPECIFIC OUTCOME 5

Mend holes and tears using twine.

SPECIFIC OUTCOME 6

Mend large scale damage using netting material.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Perform specific navigating activities while on a coastal passage

SAQA US ID	UNIT STANDARD TITLE		
264884	Perform specific navigating activities while on a coastal passage		
ORIGINATOR		PROVIDER	
SGB Maritime Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operations and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	4

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Determine and compensate for the effect of current and leeway on course and speed when steering a vessel.

SPECIFIC OUTCOME 2

Determine the compass error and deviation using the bearing of the sun at any time.

SPECIFIC OUTCOME 3

Determine and use dipping distances of lights and distances of sighting points of land of known height.

SPECIFIC OUTCOME 4

Determine the time and height of the tides at specified localities and specific circumstances.

SPECIFIC OUTCOME 5

Determine and use nautical tables to find courses and distances between two positions by Mercator sailing method or traverse tables.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Carry out marine diesel and fuel oil bunkering activities

SAQA US ID	UNIT STANDARD TITLE		
264885	Carry out marine diesel and fuel oil bunkering activities		
ORIGINATOR	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	6

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Explain the general bunkering process from shore to vessel or vessel to vessel.

SPECIFIC OUTCOME 2

Prepare for bunkering activities.

SPECIFIC OUTCOME 3

Perform bunkering activities.

SPECIFIC OUTCOME 4

Conclude bunkering activities.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

ID	QUALIFICATION TITLE	LEVEL
Elective 67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Explain responsible fishing measures***

SAQA US ID	UNIT STANDARD TITLE		
264886	Explain responsible fishing measures		
ORIGINATOR			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

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Explaining the need for responsible fishing awareness and practices.

SPECIFIC OUTCOME 2

Describing the single species and ecosystem approaches to fisheries management.

SPECIFIC OUTCOME 3

Explaining the application of sector-specific Permit Conditions at sea.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Outline the specific parts of the hull structure and fittings on a sea going vessel

SAQA US ID	UNIT STANDARD TITLE		
264887	Outline the specific parts of the hull structure and fittings on a sea going vessel		
ORIGINATOR	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	5

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Sketching and describing the construction of specific parts of the hull structure.

SPECIFIC OUTCOME 2

Describe the safety features of specific parts of the hull structure.

SPECIFIC OUTCOME 3

Sketch and describe the structure and attachment of various hull fittings.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

ID	QUALIFICATION TITLE	LEVEL
Elective 67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Perform specific watchkeeping activities***

SAQA US ID	UNIT STANDARD TITLE		
264888	Perform specific watchkeeping activities		
ORIGINATOR	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

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Prepare the ship's main and auxiliary machinery for sea.

SPECIFIC OUTCOME 2

Test the ship's steering gear for sailing.

SPECIFIC OUTCOME 3

Examine and record temperatures, pressures and fluid levels.

SPECIFIC OUTCOME 4

Operate of the ship's main pumping systems.

SPECIFIC OUTCOME 5

Explain the starting, coupling and changing over alternators and/or generators.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Cut, form and shape sheet metal***

SAQA US ID	UNIT STANDARD TITLE		
264889	Cut, form and shape sheet metal		
ORIGINATOR	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

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Select the appropriate sheet metal.

SPECIFIC OUTCOME 2

Cut sheet metal.

SPECIFIC OUTCOME 3

Form/Bend sheet metal.

SPECIFIC OUTCOME 4

Finish the item to specification.

SPECIFIC OUTCOME 5

Keep the workplace safe and productive.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate an understanding of responsible fishing

SAQA US ID	UNIT STANDARD TITLE		
264894	Demonstrate an understanding of responsible fishing		
ORIGINATOR	PROVIDER		
SGB Maritime Operations			
FIELD	SUBFIELD		
11 - Services	Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	5

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Explaining the need for a responsible fishing policy implementation.

SPECIFIC OUTCOME 2

Explaining the reasons that fisheries resources are under threat.

SPECIFIC OUTCOME 3

Describing management policies designed to ensure the sustainability of fisheries resources.

SPECIFIC OUTCOME 4

Describing measures to monitor marine resources and compliance with permit conditions.

SPECIFIC OUTCOME 5

Complying with monitoring and enforcement measures.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Manoeuvre a sea going vessel at sea and in port***

SAQA US ID	UNIT STANDARD TITLE		
264914	Manoeuvre a sea going vessel at sea and in port		
ORIGINATOR		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

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Explain the theory relating to manoeuvring the vessel.

SPECIFIC OUTCOME 2

Manoeuvre the vessel in port.

SPECIFIC OUTCOME 3

Manoeuvre the vessel at sea under different situations and conditions.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	67329	National Certificate: Inshore Maritime Operations	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:*Explain and deal with oil spills and environmental safety at sea*

SAQA US ID	UNIT STANDARD TITLE		
264959	Explain and deal with oil spills and environmental safety at sea		
ORIGINATOR		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

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Identify organisations concerned with shipping.

SPECIFIC OUTCOME 2

Explain action to be taken in the event of a pollution emergency.

SPECIFIC OUTCOME 3

Explain elementary information relating to the protection and preservation of the marine environment.

SPECIFIC OUTCOME 4

Explain the maritime occupational safety regulations.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Core	67329	National Certificate: Inshore Maritime Operations	Level 3