No. 1400 29 December 2008



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 Defence

registered by Organising Field 08: Law, Military Science and Security, 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.saqa.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 January 2009.** All correspondence should be marked **Standards Setting** – **SGB for Maritime Defence** and addressed to

The Director: Standards Setting and Development

SAQA

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D. MPHUTHING

ACTING D/RECTOR: STANDARDS SETTING AND DEVELOPMENT



QUALIFICATION: National Certificate: Vessel Safety Practices

SAQA QUAL ID	QUALIFICATION TITLE			
64929	National Certificate: Vesse	el Safety Practices		
ORIGINATOR		PROVIDER		
SGB Maritime Defence				
QUALIFICATION TYPE	FIELD	SUBFIELD		
National Certificate	8 - Law, Military Science and Security	Sovereignty of the State		
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUAL CLASS	
Undefined	139	Level 5	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:

Vessel Safety Officers, also know in the Merchant Navy as Deck Officers of the Watch, the Fishing Industry as vessel Skippers and in the South African Navy as Bridge Watchkeepers, are responsible for internal and external ship communication, the maintenance of a safe bridge watch, the navigation of the vessel and the execution of specific evolutions during a bridge watch.

This Qualification will equip learners to fulfil these responsibilities by giving them holistic training in the procedural, structural, navigational and mechanical components and competencies of the bridge and contextualised understanding of how these various components function together to optimise the performance and safety of the ship and its crew.

Recipients of this qualification will be able to:

- > Communicate in a maritime environment.
- > Maintain a safe bridge watch.
- > Navigate the vessel.
- > Conduct specific evolutions during a bridge watch.

Rationale:

This Qualification has been purpose-built for the Maritime Sector and meets the needs of the sector by providing training standards against which junior maritime officers can be trained. This Qualification meets the needs of society by providing competent maritime officers who are able to apply the complex knowledge and skills required to manage the bridge of a ship, as Vessel Safety Officers, within a safety conscious and highly regulated sector. Learners achieving this Qualification could be recognised for licensing purposes by the various maritime sub-sectors, namely the South African Navy, the Merchant Navy and the Fishing Industry.

This Qualification contributes to an integrated National Qualifications Framework; provides for access, mobility and progression within the maritime sector; enhances the quality of training

within the maritime industry, allows for the redress of past and contributes to the development of the learner as maritime officers within the Maritime Sector.

The majority of the learners attempting this qualification are likely, in the case of the Merchant Navy or the Fishing Industry, to be cadets who are working their way up the ranks or, in the case of the South African Navy, candidate officers or officers on officer training opportunities. This Qualification will allow learners access to learning pathways within the Merchant Navy, the Fishing Industry and the South African Navy.

RECOGNIZE PREVIOUS LEARNING?

Υ

LEARNING ASSUMED IN PLACE

It is assumed that the Merchant Navy and SA Navy learner has the following knowledge and skills:

- > Communication at NQF Level 4.
- > Mathematics at NQF Level 4.

It is assumed that the Fishing Industry learner has the following knowledge and skills:

- > Communication at NQF Level 4.
- > Mathematical Literacy at NQF Level 4.

Recognition of Prior Learning:

This Qualification makes the Recognition of Prior Learning possible, if the learner is able to demonstrate competence in the knowledge, skills, values and attitudes implicit in this Marketing Qualification. Recognition of Prior Learning will be done by means of an Integrated Assessment as mentioned in the previous paragraph.

This Recognition of Prior Learning may allow:

- > For accelerated access to further learning.
- > Gaining of credits towards a unit standard.
- > For full or partial recognition of the Qualification.

All recognition of Prior Learning is subject to quality assurance by the relevant accredited Education, Training, Quality, and Assurance Body and is conducted by a registered workplace assessor. Because the standards are only core and fundamental, these standards may have been acquired in a range of economic sectors and these will be recognizes as appropriate.

Access to the Qualification:

There is an open access to this qualification for learners:

- > Who have successfully completed a National Senior Certificate.
- > Who have successfully completed the FETC: Harbour Watchkeeping.
- > Who meet the psychological and physical requirements of the respective Maritime Subsectors.

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 139 credits as detailed below.

Source: National Learners' Records Database

Qualification 64929

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Fundamental Component:

The Fundamental Component consists of Unit Standards to the value of 15 credits all of which are compulsory.

Core Component:

The Core Component consists of Unit Standards to the value of 80 credits all of which are compulsory.

Elective Component:

The Elective Component consists of three specialisations, each with its own set of Unit Standards. Learners are to choose a specialisation area and complete all the Unit Standards in that specialisation. The specilisation areas are:

South African Navy Ship Bridge Watchkeeping (44 Credits):

- > ID 261037: "Execute emergency drills during a bridge watch on a naval vessel", NQF Level 4, 7 Credits
- > ID 261007: "Maintain vessel safety under operational conditions", NQF Level 5, 6 Credits.
- > ID 261080: "Prepare for and carry out fleet work exercises", NQF Level 5, 7 Credits.
- > ID 261077: "Maintain the stability of the ship", NQF Level 5, 5 Credits.
- > ID 261014: "Apply meteorological concepts to shipboard operations", NQF Level 5, 6 Credits.
- > ID 261000: "Demonstrate knowledge of and compliance with pollution prevention requirements", NQF Level 4, 3 Credits.
- > ID 261001: "Maintain the watertight integrity of the ship", NQF Level 5, 8 Credits.
- > ID 261005: "Prepare and execute bridge procedures for helicopter operations", NQF Level 5, 2 Credits.

South African Navy Submarine Bridge Watchkeeping. This specialsation has still to be developed.

Maritime Bridge Watchkeeping (Merchant Navy and Fishing Vessels). This specialsation has still to be developed.

EXIT LEVEL OUTCOMES

- 1. Communicate in a maritime environment.
- 2. Maintain a safe bridge watch.
- 3. Navigate the vessel.
- 4. Conduct specific evolutions during a bridge watch.

Critical Cross-Field Outcomes:

This qualification promotes, in particular, the following Critical Cross-Field Outcomes:

Identifying and solving problems in which responses display that responsible decisions using critical and creative thinking have been made when:

- > Maintaining a safe bridge watch.
- > Navigating the vessel.

Source: National Learners' Records Database

Qualification 64929

09/12/2008

> Conducting specific evolutions during a bridge watch.

Working effectively with others as a member of a team, group, organisation, and community during:

- > The maintenance of a safe bridge watch.
- > The navigation of the vessel.
- > The conducting of specific evolutions during a bridge watch.

Organising and managing oneself and one's activities responsibly and effectively when:

- > Maintaining a safe bridge watch.
- > Navigating the vessel.
- > Conducting specific evolutions during a bridge watch.

Communicate effectively using visual, mathematical and/or language in the modes of oral and/or written persuasion when:

- > Communicating in a maritime environment.
- > Maintaining a safe bridge watch.
- > Navigating the vessel.
- > Conducting specific evolutions during a bridge watch.

Using science and technology effectively and critically, showing responsibility towards the environment and health of others when:

- > Communicating in a maritime environment.
- > Maintaining a safe bridge watch.
- > Navigating the vessel.

Demonstrating an understanding of the world as a set of related systems by recognising that problem-solving contexts do not exist in isolation when:

- > Communicating in a maritime environment.
- > Maintaining a safe bridge watch.
- > Navigating the vessel.
- > Conducting specific evolutions during a bridge watch.

ASSOCIATED ASSESSMENT CRITERIA

Associated Assessment Criteria for Exit Level Outcome 1:

- 1.1 Visual and verbal communication are conducted according to national and international maritime accepted codes and practices.
- 1.2 The appropriate technology is used to establish contact and transfer information.

Associated Assessment Criteria for Exit Level Outcome 2:

- 2.1 Bridge watch duties are executed in compliance with standard operating procedures for the maintenance of a safe watch.
- 2.2 Emergencies are handled according to the level of authority and standard operating procedures.
- 2.3 Bridge personnel are supervised in the execution and accomplishment of their tasks.
- 2.4 The safety, security, stability and integrity of the vessel is maintained throughout the watch in accordance with standard operating procedures.
- 2.5 Waste disposal is monitored for compliance with pollution prevention requirements.

Associated Assessment Criteria for Exit Level Outcome 3:

- 3.1 Navigational planning is conducted so as ensure a safe and accurate passage within prevailing weather conditions.
- 3.2 Electronic navigation systems are applied to ensure a safe passage.

Associated Assessment Criteria for Exit Level Outcome 4:

- 4.1 The ship is handled within its handling capabilities and limitations under all weather conditions and sea states.
- 4.2 Operations, evolutions and exercises are executed according to standard operating procedures and/or special orders.

Integrated Assessment:

Because assessment practices must be open, transparent, fair, valid, and reliable and ensure that no learner is disadvantaged in any way whatsoever, an integrated assessment approach is incorporated into the Qualification. Learning, teaching and assessment are inextricably linked. Whenever possible, the assessment of knowledge, skills, attitudes and values shown in the unit standards should be integrated.

Assessment of the communication, language and literacy should be conducted in conjunction with other aspects and should use authentic maritime sector 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. 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.

The term 'Integrated Assessment' implies that theoretical and practical components should be assessed together. During integrated assessments the assessor should make use of formative and summative assessment methods and assess combinations of practical, applied, foundational and reflective competencies.

Assessors and moderators should make use of a range of formative and summative assessment methods. Assessors should assess and give credit for the evidence of learning that has already been acquired through formal, informal and non-formal learning and work experience.

Assessment should ensure that all Specific Outcomes, Essential Embedded Knowledge and Critical Cross-Field Outcomes are assessed. The assessment of the Critical Cross-Field Outcomes should be integrated with the assessment of Specific Outcomes and Essential Embedded Knowledge.

INTERNATIONAL COMPARABILITY

Best Practice:

The Seafarer's Training, Certification and Watchkeeping Code. All maritime organisations and navies comply with the Seafarer's Training, Certification and Watchkeeping Codes. This leads to a substantial degree of uniformity in a highly regulated international environment. This qualification was developed based on the Code.

The Seafarer's Training, Certification and Watchkeeping Code:

Seafarer's Training, Certification and Watchkeeping Code as adopted by the 1995 Conference of the International Maritime Organisation and recognises the specific roles and responsibilities of a watchkeeper. It lays down duties and responsibilities and provides standards and criteria for the learning and assessment of watchkeepers. Signatories to the Convention include 71 countries, amongst them leading seafaring nations such as Argentina, Australia, Canada, China, Denmark, Finland, France, Germany, India, Japan, Netherlands, New Zealand, Norway, Portugal, Russia, South Africa, Spain, Sweden, and the United Kingdom.

Areas of specified competence include:

- > Plan and conduct a passage and determine position.
- > Maintain a safe navigational watch.
- > Use of radar and automatic radar plotting aids to maintain navigational safety.
- > Respond to emergencies.
- > Respond to a distress signal at sea.
- > Use the Standard Navigational Vocabulary as replaced by the IMO Standard Marine Communication Phrases, and use English in written and oral form.
- > Transmit and receive information by visual signaling.
- > Manoeuvre the ship.
- > Monitor the loading, stowage, securing, care during voyage and unloading of cargoes.
- > Inspect/report defects and damage to cargo spaces, hatch covers and ballast tanks.
- > Compliance with pollution-prevention requirements.
- > Maintenance of seaworthiness of the vessel.
- > Prevention, control and fighting of fires on board.
- > Operation of life-saving appliances.
- > First aid on board ship.
- > Compliance with legislative requirements.

Findings: All of these areas are addressed in the National Certificate: Vessel Safety Practices, Level 5.

Conclusion:

The National Certificate: Vessel Safety Practices, Level 5 deals with a all of the requirements of the Seafarer's Training, Certification and Watchkeeping Code and therefore, due to its international acceptance, also compares favourably with a majority of foreign maritime sectors. Once the maritime officer has completed the National Certificate: Vessel Safety Practices, Level 5 he/she would have achieved all the competencies of the Seafarer's Training, Certification and Watchkeeping Code.

ARTICULATION OPTIONS

This Qualification lends itself to both vertical and horizontal articulation possibilities.

Horizontal articulation is possible with the following Qualifications:

- > ID 58840: National Certificate: Submarine Operations, NQF Level 5.
- > ID 64129: National Certificate: Warship Operations, NQF Level 5.
- > ID 57714: National Certificate: Marine Pilotage, NQF Level 5.

Vertical articulation is possible with the following qualifications:

- > ID 58783: National Certificate: Warship Command and Control, NQF Level 6.
- > ID 49783: National Diploma: Joint and Multi-National Operations, NQF Level 6.
- > ID 1413: National Diploma: Maritime Studies, NQF Level 6.
- > ID 62417: National Diploma: Transport Economics, NQF Level 6.

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 Education, Training, Quality, and Assurance (ETQA) Body.
- > 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, 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

For an applicant to register as an assessor, the applicant needs:

- > A minimum of 2 (two) years' practical, relevant occupational experience.
- > A relevant Qualification at NQF Level 6 or higher.
- > To be registered as an assessor with the relevant ETQA.

NOTES

Terms have been clarified as far as possible through the use of range statements. Further clarification of terms is provided as follows:

- > Integrated Platform Management Systems (IPMS) refers to a system which enables the integrated monitoring and control of all of the platform machinery and systems of the ship, such as propulsion, steering, electrical generation and distribution, auxiliaries, fire/smoke/flood detection and damage control.
- > Global Positioning System (GPS) refers to a satellite-based radionavigation system which permits users with suitable receivers to establish their position, speed and time on land, sea or in the air, at any time of the day or night and in any weather condition, anywhere in the world. The System is accurate to within 30 metres.
- > Differential Global Positioning System (DGPS) refers to a method of increasing the accuracy of positions derived from GPS receivers. With DGPS receivers, position accuracy is improved, going from 30 meters to better than 10 metres.
- > Content Management System (CMS) refers to a computer software system used to assist its users in the process of content management. A CMS facilitates the organization, control, and publication of a large body of documents and other content, such as images and multimedia resources.
- > Global Maritime Distress and Safety System (GMDSS) refers to a system which is an amalgam of various individual radio systems, both terrestrial and satellite, specifically designed to automate a ship's radio distress alerting function, which removes the requirement for manual watchkeeping on distress channels. Search and Rescue (SAR) authorities ashore, as well as

shipping in the immediate vicinity of the ship or persons in distress will be rapidly alerted so that they can assist in a coordinated SAR operation with the minimum of delay.

- > Radio Regulations refer to the Radio Regulations annexed to, or regarded as being annexed to, the most recent International Telecommunications Convention which may be in force at any time.
- > Officer refers to a member of the crew, other than the Captain (or Master), designated as such by international law or regulations or, in the absence of such designation, by collective agreement or custom.
- > Deck officer refers to an officer qualified in accordance with the provisions of Chapter II of the Seafarer's Training, Certification and Watchkeeping Convention.
- > Rating refers to a member of the ship's crew other than the Captain (or Master) or an officer.
- > The Seafarer's Training, Certification and Watchkeeping (STCW) Code refers to the code as adopted by the 1995 Conference resolution 2, as it may be amended.
- > Seagoing service refers to the service on board a ship relevant to the issue of a certificate or other qualification.
- > Standard of competence refers to the level of proficiency to be achieved for the proper performance of functions on board ship in accordance with the internationally agreed criteria.
- > Management level refers to the level of responsibility associated with:
- > Serving as captain (or master) or first officer on board a seagoing ship.
- > Ensuring that all functions within the designated area of responsibility are properly performed.
- > Support Level refers to the level of responsibility associated with performing assigned tasks, duties or responsibilities on board a seagoing ship.
- > Operational level refers to:
- > Serving as officer in charge of a navigational watch on board a seagoing ship.
- > Maintaining direct control over the performance of all functions within the designated area of responsibility in accordance with proper procedures and under the direction of an individual serving in the management level for that area of responsibility.

UNIT STANDARDS

	. ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Fundamental	115792	Access, process, adapt and use data from a wide range of texts	Level 5	5
Fundamental	115789	Sustain oral interaction across a wide range of contexts and critically evaluate spoken texts	Level 5	5
Fundamental	115790	Write and present for a wide range of purposes, audiences and contexts	Level 5	5
Core	261006	Communicate using standard maritime verbal and visual communication procedures	Level 4	12
Core	261079	Conduct seamanship evolutions	Level 4	3
Core	261098	Supervise personnel in a shipboard environment	Level 4	5
Core	261004	Conduct a safe navigational passage	Level 5	24
Core	260997	Demonstrate understanding of operating procedures, capabilities and limitations of bridge equipment	Level 5	7
Core	261008	Execute and manage bridge conduct procedures	Level 5	8
Core	261057	Manoeuvre the ship using control systems	Level 5	6
Core	261097	Use electronic navigation systems other than radar to maintain safety of navigation	Level 5	5

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	261078	Use maritime communications system for internal and external communication	Level 5	3
Core	261009	Use radar and automatic radar plotting aids to maintain safety of navigation	Level 5	7
Elective	261000	Demonstrate knowledge of compliance with pollution prevention requirements	Level 4	3
Elective	261037	Execute emergency drills during a bridge watch	Level 4	7
Elective	261014	Apply meteorological concepts to shipboard operations	Level 5	6
Elective	261005	Conduct bridge procedures for helicopter operations	Level 5	2
Elective	261080	Conduct fleet work exercises	Level 5	7
Elective	261077	Demonstrate an understanding of ship stability	Level 5	5
Elective	261001	Demonstrate an understanding of ship watertight integrity	Level 5	8
Elective	261007	Maintain vessel safety under operational conditions	Level 5	6

LEARNING PROGRAMMES RECORDED AGAINST THIS QUALIFICATION None



UNIT STANDARD:

Demonstrate understanding of operating procedures, capabilities and limitations of bridge equipment

SAQA US ID	UNIT STANDARD TITLE			
260997	Demonstrate understanding of o	perating procedures, capa	abilities and	
	limitations of bridge equipment			
ORIGINATOR	PROVIDER			
SGB Maritime Defence	SGB Maritime Defence			
FIELD	ELD SUBFIELD			
8 - Law, Military Science	and Security	Sovereignty of the State		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS	
Undefined	Regular	Level 5	7	

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

SPECIFIC OUTCOME 1

Demonstrate understanding of bridge equipment.

SPECIFIC OUTCOME 2

Operate bridge equipment in the course of executing bridge watchkeeping duties.

SPECIFIC OUTCOME 3

Respond to bridge alarm systems.

	ID	QUALIFICATION TITLE	LEVEL
Соге	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Demonstrate knowledge of compliance with pollution prevention requirements

SAQA US ID	UNIT STANDARD TITLE			
261000	Demonstrate knowledge of com	pliance with pollution prev	ention requirements	
ORIGINATOR	PROVIDER			
SGB Maritime Defence				
FIELD	FIELD SUBFIELD			
8 - Law, Military Science and Security		Sovereignty of the State		
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

Describe precautions to take in order to prevent pollution.

SPECIFIC OUTCOME 2

Demonstrate an understanding of a response to a pollution incident.

SPECIFIC OUTCOME 3

Implement pollution prevention measures during fuel oil or liquid cargo transfer operations.

	ID	QUALIFICATION TITLE	LEVEL
Elective	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Demonstrate an understanding of ship watertight integrity

SAQA US ID	UNIT STANDARD TITLE				
261001	Demonstrate an understanding	of ship watertight integrity			
ORIGINATOR	PROVIDER				
SGB Maritime Defence	SGB Maritime Defence				
FIELD SUBFIELD					
8 - Law, Military Science and Security		Sovereignty of the State			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 5	8		

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

SPECIFIC OUTCOME 1

Demonstrate an understanding of general arrangements of common large and small ship types.

SPECIFIC OUTCOME 2

Demonstrate an understanding of the fundamental concepts of ship stresses.

SPECIFIC OUTCOME 3

Demonstrate an understanding of the purpose of load lines.

SPECIFIC OUTCOME 4

Explain how the structure and attachments of hull fittings are constructed.

	ID	QUALIFICATION TITLE	LEVEL
Elective	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Conduct a safe navigational passage

SAQA US ID	UNIT STANDARD TITLE		
261004	Conduct a safe navigational par	ssage	
ORIGINATOR	PROVIDER		
SGB Maritime Defence			
FIELD		SUBFIELD	
8 - Law, Military Scienc	8 - Law, Military Science and Security		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 5	24

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

SPECIFIC OUTCOME 1

Plan a navigational passage.

SPECIFIC OUTCOME 2

Execute a safe navigational passage.

SPECIFIC OUTCOME 3

Demonstrate understanding of international regulations for preventing collisions at sea.

SPECIFIC OUTCOME 4

Maintain a safe navigational watch.

	ID_	QUALIFICATION TITLE	LEVEL
Core	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Conduct bridge procedures for helicopter operations

SAQA US ID	UNIT STANDARD TITLE			
261005	Conduct bridge procedures for h	nelicopter operations		
ORIGINATOR	PROVIDER			
SGB Maritime Defence				
FIELD		SUBFIELD		
8 - Law, Military Science	8 - Law, Military Science and Security			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS	
Undefined	Regular	Level 5	2	

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

SPECIFIC OUTCOME 1

Demonstrate knowledge of helicopter and vessel capabilities and limitations.

SPECIFIC OUTCOME 2

Provide joining information to inbound helicopters.

SPECIFIC OUTCOME 3

Conduct flight deck operations on a vessel.

SPECIFIC OUTCOME 4

Demonstrate knowledge of procedures for helicopter emergencies.

	ID	QUALIFICATION TITLE	LEVEL
Elective	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Communicate using standard maritime verbal and visual communication procedures

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
261006	Communicate using standard maritime verbal and visual communication procedures				
ORIGINATOR PROVIDER					
SGB Maritime Defence					
FIELD		SUBFIELD			
8 - Law, Military Science and Security		Sovereignty of the State			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 4	12		

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

SPECIFIC OUTCOME 1

Demonstrate an understanding of both visual and verbal communication used in a maritime environment.

SPECIFIC OUTCOME 2

Issue, receive and execute verbal and written orders.

SPECIFIC OUTCOME 3

Signal intentions and/or communicate information using naval communication procedures.

SPECIFIC OUTCOME 4

Communicate with persons visiting and working on board the ship.

	ID	QUALIFICATION TITLE	LEVEL
Core	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Maintain vessel safety under operational conditions

SAQA US ID	UNIT STANDARD TITLE		
261007	Maintain vessel safety under op	erational conditions	
ORIGINATOR		PROVIDER	
SGB Maritime Defence			
FIELD		SUBFIELD	
8 - Law, Military Science and Security		Sovereignty of the State	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 5	6

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

SPECIFIC OUTCOME 1

Direct the vessel's conduct with regard to torpedo and missile countermeasures.

SPECIFIC OUTCOME 2

Demonstrate knowledge of bridge weapons safety drills.

SPECIFIC OUTCOME 3

Execute bridge weapon firing drills.

SPECIFIC OUTCOME 4

Execute bridge procedures for submarine safety under exercise conditions.

	ID	QUALIFICATION TITLE	LEVEL
Elective	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Execute and manage bridge conduct procedures

SAQA US ID	UNIT STANDARD TITLE			
261008	Execute and manage bridge co	Execute and manage bridge conduct procedures		
ORIGINATOR	··· ·			
SGB Maritime Defence				
FIELD		SUBFIELD		
8 - Law, Military Science	8 - Law, Military Science and Security			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS	
Undefined	Regular	Level 5	8	

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

SPECIFIC OUTCOME 1

Demonstrate understanding of the Officer of the Watch's duties and responsibilities.

SPECIFIC OUTCOME 2

Execute bridge conduct procedures.

SPECIFIC OUTCOME 3

Evaluate the execution of bridge conduct procedures.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Core	64929	National Certificate: Vessel Safety Practices	Level 5

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UNIT STANDARD:

Use radar and automatic radar plotting aids to maintain safety of navigation

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
261009	Use radar and automatic radar	Use radar and automatic radar plotting aids to maintain safety of navigation			
ORIGINATOR		PROVIDER			
SGB Maritime Defence					
FIELD		SUBFIELD	SUBFIELD		
8 - Law, Military Science	ce and Security	Sovereignty of the State			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 5	7		

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

SPECIFIC OUTCOME 1

Apply an understanding of a maritime radar set.

SPECIFIC OUTCOME 2

Use a marine radar set to detect contacts and promote safe navigation.

SPECIFIC OUTCOME 3

Use an automatic radar plotting aid to maintain safe navigation.

	ID	QUALIFICATION TITLE	LEVEL
Core	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Apply meteorological concepts to shipboard operations

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE		
261014	Apply meteorological concepts	to shipboard operations		
ORIGINATOR		PROVIDER		
SGB Maritime Defenc	e			
FIELD		SUBFIELD		
8 - Law, Military Scien	8 - Law, Military Science and Security			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS	
Undefined	Regular	Level 5	6	

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

SPECIFIC OUTCOME 1

Describe how weather information is applied to the operations of a ship.

SPECIFIC OUTCOME 2

Forecast weather for a ship in given conditions within a climatic zone.

SPECIFIC OUTCOME 3

Demonstrate an understanding of the effect of the earth's atmosphere on the climatic conditions.

SPECIFIC OUTCOME 4

Demonstrate knowledge of currents and seasonal weather patterns on the South African coast.

SPECIFIC OUTCOME 5

Record weather observations in the ship's deck log.

	D	QUALIFICATION TITLE	LEVEL
Elective	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Execute emergency drills during a bridge watch

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE		
261037	Execute emergency drills during	ng a bridge watch		
ORIGINATOR PROVIDER				
SGB Maritime Defend	e			
FIELD		SUBFIELD		
8 - Law, Military Science and Security		Sovereignty of the Sta	ite 🤲	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS	
Undefined	Regular	Level 4	7	

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

SPECIFIC OUTCOME 1

Demonstrate knowledge of emergency drills.

SPECIFIC OUTCOME 2

Execute emergency drills.

SPECIFIC OUTCOME 3

Evaluate the execution of emergency drills.

SPECIFIC OUTCOME 4

Carry out nuclear, biological, chemical defence (NBCD) and damage control emergency drills.

	ID	QUALIFICATION TITLE	LEVEL
Elective	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Manoeuvre the ship using control systems

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE		
261057	Manoeuvre the ship using contr	ol systems		
ORIGINATOR		PROVIDER		
SGB Maritime Defence				
FIELD		SUBFIELD		
8 - Law, Military Scien	ce and Security	Sovereignty of the State		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS	
Undefined	Regular	Level 5	6	

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

SPECIFIC OUTCOME 1

Operate an automatic pilot and steering controls.

SPECIFIC OUTCOME 2

Describe the function of rudders and propellers in steering a ship.

SPECIFIC OUTCOME 3

Bring a ship up to anchor.

SPECIFIC OUTCOME 4

Manoeuvre a ship.

SPECIFIC OUTCOME 5

Demonstrate knowledge of the mooring and unmooring of a ship.

	ID .	QUALIFICATION TITLE	LEVEL
Core	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Demonstrate an understanding of ship stability

SAQA US ID	UNIT STANDARD TITLE				
261077	Demonstrate an understanding	Demonstrate an understanding of ship stability			
ORIGINATOR		PROVIDER			
SGB Maritime Defence	}				
FIELD		SUBFIELD			
8 - Law, Military Science and Security		Sovereignty of the State			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined Regular		Level 5	5		

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

SPECIFIC OUTCOME 1

Demonstrate an understanding of ship stability assessment.

SPECIFIC OUTCOME 2

Demonstrate an understanding of the effects of the movement of the centre of gravity on the ship during loading operations or while on passage.

SPECIFIC OUTCOME 3

Demonstrate understanding of the effect of slack and fresh water tanks on ship stability.

SPECIFIC OUTCOME 4

Demonstrate understanding of the fundamentals of watertight integrity.

	ID	QUALIFICATION TITLE	LEVEL
Elective	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Use maritime communications system for internal and external communication

SAQA US ID	UNIT STANDARD TITLE				
261078	Use maritime communications	Use maritime communications system for internal and external communication			
ORIGINATOR		PROVIDER			
SGB Maritime Defend	e				
FIELD		SUBFIELD	SUBFIELD		
8 - Law, Military Scien	ice and Security	Sovereignty of the Sta	ate		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 5	3		

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

SPECIFIC OUTCOME 1

Demonstrate understanding of the ship's communication systems.

SPECIFIC OUTCOME 2

Communicate using communication systems.

SPECIFIC OUTCOME 3

Select and use signalling equipment under maritime distress conditions.

	ID	QUALIFICATION TITLE	LEVEL
Core	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Conduct seamanship evolutions

SAQA US ID	UNIT STANDARD TITLE		
261079	Conduct seamanship evolutions		
ORIGINATOR	-	PROVIDER	
SGB Maritime Defence			
FIELD		SUBFIELD	
8 - Law, Military Science	e and Security	Sovereignty of the State	
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

Demonstrate a knowledge of seamanship evolutions.

SPECIFIC OUTCOME 2

Execute routine seamanship evolutions during a bridge watch.

SPECIFIC OUTCOME 3

Evaluate the execution of seamanship evolutions.

	ID	QUALIFICATION TITLE	LEVEL
Core	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Conduct fleet work exercises

SAQA US ID	UNIT STANDARD TITLE		
261080	Conduct fleet work exercises		
ORIGINATOR		PROVIDER	
SGB Maritime Defence			
FIELD		SUBFIELD	
8 - Law, Military Science	e and Security	Sovereignty of the State	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 5	7

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

SPECIFIC OUTCOME 1

Demonstrate knowledge of fleet work exercises.

SPECIFIC OUTCOME 2

Carry out fleet work exercises.

SPECIFIC OUTCOME 3

Evaluate fleet work exercises.

	ID .	QUALIFICATION TITLE	LEVEL
Elective	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Use electronic navigation systems other than radar to maintain safety of navigation

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
261097		tems other than radar to maintain safety of			
	navigation				
ORIGINATOR		PROVIDER	PROVIDER		
SGB Maritime Defend	ce				
FIELD		SUBFIELD	SUBFIELD		
8 - Law, Military Scie	8 - Law, Military Science and Security		State		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 5	5		

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

SPECIFIC OUTCOME 1

Use a radio direction finder to obtain a bearing of a transmitting station.

SPECIFIC OUTCOME 2

Use an echo sounder to navigate safely.

SPECIFIC OUTCOME 3

Use speed logs to determine the speed of the ship on passage.

SPECIFIC OUTCOME 4

Obtain the ship's position by using satellite navigation equipment.

SPECIFIC OUTCOME 5

Demonstrate knowledge of electronic chart information when navigating.

	ID	QUALIFICATION TITLE	LEVEL
Core	64929	National Certificate: Vessel Safety Practices	Level 5



UNIT STANDARD:

Supervise personnel in a shipboard environment

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE				
261098	Supervise personnel in a ship	Supervise personnel in a shipboard environment				
ORIGINATOR		PROVIDER				
SGB Maritime Defence						
FIELD		SUBFIELD				
8 - Law, Military Scier	nce and Security	Sovereignty of the State				
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS			
Undefined	Regular	Level 4	5			

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

SPECIFIC OUTCOME 1

Demonstrate knowledge of the maritime legal system.

SPECIFIC OUTCOME 2

Observe safe working practices in the supervision of personnel.

SPECIFIC OUTCOME 3

Contribute to effective human relationships on board.

SPECIFIC OUTCOME 4

Contribute to the training and assessment of crew members.

	ID	QUALIFICATION TITLE	LEVEL
Core	64929	National Certificate: Vessel Safety Practices	Level 5