



GUIDANCE NOTE
SAMSA Code: Matrix 2015

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Review Date 16.10.15
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Compiled by

Approved by

Chief Examiner

Syllabus Committee: 27 Sept. 2013

OPERATIONS – SEAFARER CERTIFICATION

GUIDANCE NOTE

SA MARITIME QUALIFICATIONS CODE

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4.1 STUDY MATRIX REQUIRED FOR THE DECK OFFICER CERTIFICATES OF COMPETENCY

In the table the units for a particular subject are shown under the certificate of competency

	Master near coastal <200GT	Master <200GT	Mate <500GT	Master <500GT	Mate Near coastal	Master Near coastal	Deck Officer	End. Chief Mate	End. Master	Chief Mate & Master
Chart - work	Module 1 module 2	Module 1 Module 2 Module 3	Module 1 Module 2 Module 3	Module 1 Module 2 Module 3 Module 4 Module 5	Module 1 Module 2 Module 3	Module 1 Module 2 Module 3 Module 4 Module 5	Module 1 Module 2 Module 3 Module 4	Module 1 Module 2 Module 3 Module 4 Module 5	Module 1 Module 2 Module 3 Module 4 Module 5	Module 1 Module 2 Module 3 Module 4 Module 5
Celestial Nav.		1 and 2	1 and 2	1 to 3	1 and 2	1 and 2	1 to 3	1 to 5	1 to 5	1 to 5
Electronic Navigation Systems.	1 to 2	1 to 2	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 4	1 to 4
Naval Architecture	1	1	1 to 3	1 to 5	1 to 3	1 to 5	1 to 5	1 to 10	1 to 10	1 to 10
Cargo Handling & Stowage			1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 4	1 to 4
Ship Power Plants				1 and 2		1		1 and 2	1 and 2	1 and 2
Personnel Man'mnt & Ship Master's Bus.	1 and 2	1 to 3	1 to 4	1 to 8	1 to 4	1 to 5	1 to 4	1 to 8	1 to 8	1 to 8
Marine Environmental Studies	1	1 and 2	1	1 to 5	1	1 and 2	1 to 3	1 to 5	1 to 5	1 to 5
Ship Manoeuvring and Handling	1	1	1	1 and 2	1	1 and 2	1	1 and 2	1 and 2	1 and 2
Emergency Proc.	1	1	1	1 and 2	1	1 and 2	1	1 and 2	1 and 2	1 and 2
Communications		1	1		1		1			
Applied Marine Science & Maths							1, 2 and 4			

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	Master near coastal <200GT	Master <200GT	Mate <500GT	Master <500GT	Mate near coastal	Master Near coastal	Deck Officer	End. Chief Mate	End. Master	Chief Mate & Master
Survival Craft & RB			X	X	X	X	X	X	X	X
Personal. Survival Techniques	X	X	X	X	X	X	X	X	X	X
Personal Safety and Social Responsibilities	X	X	X	X	X	X	X	X	X	X
Medical first aid	X	X	X		X		X			
Medical Care				X		X		X	X	X
Fire prevention & fire fighting	X	X								
Adv Fire fighting			X	X	X	X	X	X	X	X
Able seafarer Deck			X		X		X			
LRC(non-GMDSS vessels)	X	X								
GMDSS for >300GT			X	X	X	X	X	X	X	X
Generic ECDIS Certificate [§]			X	X	X	X	X	X	X	X
Ship Security Officer								X	X	X
Medical Certificate	X	X	X	X	X	X	X	X	X	X
Eye test Cert.	X	X	X	X	X	X	X	X	X	X

[§] Generic ECDIS required if vessel is fitted with ECDIS and in accordance with Safe Manning Certificate.

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4.2 STUDY MATRIX REQUIRED FOR THE ENGINEER OFFICER CERTIFICATES OF COMPETENCY.

In the table the modules for a particular subject are shown under the certificate of competency.

In the table below, the modules marked * are Deck Modules.

	Eng. Off of Watch	Second Engineer <3000kW	Chief Engineer <3000kW	Second Engineer ≥3000kW	Chief Engineer ≥3000Kw	Electro technical Officer [%]
Gen.Eng Science /Applied Mechanics	1	1 to 2	1 to 3	1 to 3	1 to 4	1 to 4
Heat Engines/ Thermodynamics	1 and 2	1 to 3	1 to 5	1 to 5	1 to 5	
Engineering Drawing	1	1	1	1	1	1
Applied Marine Science & Maths	1	1	1 and 3	1 and 3	1 and 3	1 and 3
Electrotechnology	1 and 2	1 and 2	1 to 3	1 to 3	1 to 4	1 to 4
Naval Architecture*	1 to 6	1 to 6, 7 [#] , 8, 11 and 12	1 to 6, 7 [#] , 8, 11 and 12	1 to 6, 7 [#] , 8, 11 and 12	1 to 6, 7 [#] , 8, 9 [@] and 11 to 14	1 to 6
Personnel Man'mnt & Ship Master's Bus.*	1 to 4	1 to 4 and 6	1 to 4 and 6 to 7	1 to 4 and 6	1 to 4 and 6 to 7	1 to 4
Engineering Knowledge	1	1 and 2	1 to 3	1 and 2	1 to 3	1 to 3
Industrial Electronics 2		X	X	X	X	X
Control Systems 2		X	X	X	X	X
Survival craft & RB	X					X
Medical First Aid	X	X	X	X	X	X
Fire prevention & Firefighting	X					X
Advanced Firefighting		X	X	X	X	
Personal Survival Techniques	X	X	X	X	X	X

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	Eng. Off of Watch	Second Engineer <3000kW	Chief Engineer <3000kW	Second Engineer ≥3000kW	Chief Engineer ≥3000Kw	Electro technical Officer [%]
Personal Survival and Social Responsibilities	X	X	X	X	X	X
Medical Certificate	X	X	X	X	X	X
Eye-test certificate	X	X	X	X	X	X

[#] - Module 7 (only competence 5, 6, and 7) [@] - Module 9 (only competence 4, 6 and 7)

[%] - Electro technical Officer Competencies are proposed only; a detailed requirement will be available during 2015.

4.3 STUDY MATRIX OF ADDITIONAL MODULES OF KNOWLEDGE REQUIRED FOR THE ENDORSEMENTS TO THE ENGINEER CERTIFICATES OF COMPETENCY

In the table the modules for a particular subject are shown under the certificate of competency.

In the table below, the modules marked * are Deck Modules.

	Second Engineer ≥ 3000kW endorsed Chief Engineer < 3000kW	Second Engineer < 3000kW endorsed Chief Engineer < 750kW.	Engineer Officer endorsed Chief Engineer -port operations.
Heat Engines/ Thermodynamics			3
Naval Architecture*			1 to 6, 7 [#] , 8, 11 and 12
Personnel Man'mnt & Ship*	6, 7	6, 7	6
Engineering Knowledge	3	1 and 2	1 and 2

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**4.4 Study Matrix Required For The Deck Officer
Certificate of Competency Port Operations Only**

	Skipper Port Ops	Master Port Ops
Chartwork	1	
Electronic Navigation Systems	1	1 and 2
Naval Architecture	1	1 to 5 and 8
Personnel Management & Ship Master's Bus	1 and 2	1 to 4 and 6
Ship Manoeuvring & Handling	1	1 and 2
Emergency Procedures	1	1 and 2
Communications		
PST	X	X
PSSR	X	X
Medical First Aid	X	X
Fire prevention & Fire Fighting	X	X
Adv. Firefighting		X
Short Range Certificate (SRC)	X	X
Medical certificate	X	X
Eyesight certificate	X	X

**4.5 Study Matrix Required For the Engineer Officer
Certificate of Competency Port Operations Only**

In the table below, the modules marked * are Deck Modules.

	Second Eng Off Port Ops Unlimited/ Ch. Eng Off Port Ops <1500kW	Ch. Eng. Port Ops Unlimited
Gen. Eng Science / Applied Mechanics	1	1 and 2
Heat engines / Thermodynamics	1	1 and 3
Engineering Drawing	1	1
Applied Science & Mathematics	1	1
Electrotechnology	1	1
Naval Architecture*	1 to 6	1 to 6, 7 [#] , 8, 11 and 12
Personnel Management & Ship*	1 to 4	1 to 4 and 6
Engineering Knowledge	1	1 and 2
PST	X	X
PSSR	X	X
Medical First Aid	X	X
Fire prevention & firefighting	X	
Adv. Fire fighting		X
Medical certificate	X	X
Eye-test certificate	X	X

[#] - Module 7 (only competence 5, 6, and 7)

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4.6 Study matrix required for certificates of proficiency including port operations

	Ordinary Seafarer Engine	Able seafarer engine	Ordinary Seafarer deck	Able seafarer deck	GPR (Port Operations)
Able seafarer deck course				X	X
Able seafarer engine course		X			X
Elementary First Aid	X		X		
Medical First Aid	X	X	X	X	X
Fire prevention & fire fighting	X	X	X	X	X
Survival Craft & Rescue Boats		X		X	X [#]
PST	X		X		
PSSR	X	X	X	X	X
Eye-test certificate	X	X	X	X	X
Medical certificate	X	X	X	X	X

For vessels without survival craft and operating within a port operations area, this may be substituted by PST.

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FISHING CERTIFICATION (DECK DEPARTMENT)

(Subject modules and ancillary certification shown under certification columns)

As per SAMSA Code Deck and Engine Syllabus

Certification Subject etc	Unlimited Waters Command Endorsement	Skipper (Fishing >24 metres)	Skipper (Fishing < 24 metres) / Deck Officer (Fishing > 24 metres)	Deck Officer (Fishing < 24 metres)	Able Seafarer (Fishing)
Chartwork	1-5	1-4	1-3	1-2	
Celestial Navigation	1				
Electronic Navigation Systems	1-2	1-2	1-2	1	
Naval Architecture *	1-5	1-5	1-4	1-2	
Ship's Power Plant	1	1	1		
Personnel Management and Ship Master's Business *	1-6	1-6	1-2 and 6	1	
Marine Environmental Studies	1-2	1	1	1	
Ship Manoeuvring and Handling	1-2	1-2	1	1	
Fishing Safety	1-2	1-2	1-2	1	1-2
Emergency Procedures	1-2	1-2	1-2	1	
Communications	1	1	1	1	
Proficiency in Survival Craft & Rescue Boats	X	X			
Personal Survival Techniques			X	X	X
Personal Survival and Social Responsibilities	X	X	X		
Medical First Aid			X	X	X
Competence in Medical Care	X	X			
Fire prevention and fire fighting	X	X	X	X	X
Advanced Fire-fighting	X	X	X		
Safety Familiarisation Training	X	X	X	X	X
Short /Long Range Certificate		X	X	X	
GMDSS	X				
Generic ECDIS certificate §	X	X	X	X	
Medical certificate	X	X	X	X	X
Eyesight certificate	X	X	X	X	X

§ Required if vessels is fitted with ECDIS and in accordance with Safe Manning Certificate

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MARINE MOTORMAN / CHIEF ENGINEER OFFICER (FISHING) CERTIFICATION

(Subject modules and ancillary certification shown under certification columns)

As per SAMSA Code Deck and Engine Syllabus

Certification Subject etc	Second Engineer (Fishing)	Chief Engineer Officer (Fishing)	Marine Motorman Higher Grade	Marine Motorman Grade 1	Marine Motorman Grade 2
Naval Architecture*	1-6	1-6,7 [#] ,8,11	1-4	1-2	1
Personnel Management and Ship Master's Business*	1-3	1-4	1-4	1-3	1
Engineering Knowledge	1	1	1	1	1
Emergency Procedures	1-2	1-2	1-2	1	1
Fishing Safety	1-2	1-2	1-2	1-2	1
Electrotechnology	1	1			
Applied Marine Science and Mathematics	1	1-2			
Engineering Drawing	1	1			
General Engineering Science / Applied Mechanics	1	1-2			
Heat Engines / Thermodynamics	1	1 and 3			
Proficiency in Survival Craft and Rescue Boats	X	X	X		
Personal Survival Techniques				X	X
Personal Survival and Social Responsibilities	X	X	X		
Medical First Aid at Sea	X	X	X	X	X
Fire Prevention and fighting	X	X	X	X	X
Advanced Fire-fighting	X	X	X		
Pre-sea Training	X			X	X

[#]Module 7 – only competence 5, 6 & 7

WORKSHOP TRAINING
(MARINE MOTORMAN AND CHIEF ENGINEER OFFICER (FISHING))

(Subject modules shown under certification columns).

As per SAMSA Code Deck and Engine Syllabus

Certification Subject	Second Engineer (Fishing) and Chief Engineer Officer (Fishing)	Marine Motorman Higher Grade	Marine Motorman Grade 1	Marine Motorman Grade 2
Diesel	1-2	1-2	1	1
Electrical	1-2	1-2		
Fitting	1-2	1-2		
Machining	1-2	1-2		
Welding	1	1	1	1
Sheet metal	1	1	1	
Hydraulics	1	1	1	
Pneumatics	1	1	1	
Refrigeration	1	1	1	