

Approved in 22nd NSQC dated 19th December 2018

NSDA Reference
To be added by NSDA

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List of documents submitted in support of the Qualifications File:

1. Career map of Maritime Foundation Course (Annexure 1)
2. Curriculum and Course Content (Separate file)
3. IMO guidelines on following STCW (Separate File)

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SUMMARY

1	Qualification Title	Sagarmala IMO Maritime Foundation Course (SIMFC)
2	Qualification Code, if any	SIMFC01
3	NCO code and occupation	8350
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	A certificate course under Standards of Training, Certification and Watch keeping (STCW) convention of International Maritime Organization(IMO) Purpose: To provide a short term foundation course for maritime skills
5	Body/bodies which will award the qualification	Directorate General of Shipping under the Ministry of Shipping
6	Body which will accredit providers to offer courses leading to the qualification	Directorate General of Shipping under the Ministry of Shipping Directorate General of Shipping may empanel appropriate private sector agencies for the said purpose.
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	Yes (attached for all DG Shipping courses, may issue smaller document for this course only)
8	Occupation(s) to which the qualification gives access	General Purpose Ratings
9	Job description of the occupation	Cleaning Accommodation, Deck Maintenance, Cargo operation and follow the orders and instructions as given time to time by

		seniors. Engine room cleaning and assisting seniors as required.
1 0	Licensing requirements	Certificate of Departure (COD) provided by Directorate General of Shipping under the Ministry of Shipping
1 1	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	Directorate General of Shipping under the Ministry of Shipping is the regulatory body in this domain
1 2	Level of the qualification in the NSQF	3
13	Anticipated volume of training/learning required to complete the qualification	140 hours
14	Indicative list of training tools required to deliver this qualification	Annexed with Curriculum and Course Content
15	Entry requirements and/or Recommendations	The course is open to all seafarers who are to serve on board sea-going merchant ships. There are no particular educational requirements. The candidate should be able to read and write in any language. Candidate can start work at 18 years of age
16	Progression from the Qualification (Please show Professional and academic progression)	Nautical field- GP Ratings Deck to Master Engineering field- GP Rating Engine to Chief Engineer
17	Arrangements for the Recognition of Prior learning (RPL)	Yes, in particular for a version of the course for people manning boats in Inland waters
18	International comparability where known	Standards of Training, Certification and Watch keeping (STCW) training requirements. All signatory countries following exactly the same training requirements.
19	Date of planned review of the qualification.	23th April, 2022

20. Formal structure of the qualification				
	Title of component and identification code.	Mandatory/ Optional	Estimated size (learning hours)	Level
1	Elementary First Aid (IMO Model Course 1.13/STCW A-VI/1)	Mandatory	15	3
2	Fire Prevention And Fire Course (IMO Model Course 1.20/STCW A-VI/1)	Mandatory	16	3
3	Personal Safety And Social Responsibility (IMO Model Course 1.21/STCW A-VI/1)	Mandatory	21	3
4	Personal Survival Techniques (IMO Model Course 1.19/STCW A-VI/1)	Mandatory	15	3
5	Security Training For Seafarers With Designated Security Duties (IMO Model Course 3.26/STCW A-VI/1)	Mandatory	14	3
6	Maritime English and English in Global Context	Mandatory	25	3
7	Soft and Intercultural Skills to improve productivity, behavior, hygiene, attitude, etc.	Mandatory	25	3

Please attach any document giving further detail about the structure of the qualification –
egg a Curriculum Document or a Qualification Pack.

1. Sagarmala IMO Maritime Skills course

**SECTION:
ASSESSMENT**

21	Body/Bodies which will carry out assessment:	Assessment Agencies empanelled by DG Shipping
22	How will RPL assessment be managed and who will carry it out?	<p>RPL assessment will be as per the specific scheme in which course will be run. m. RPL is planned for people plying in inland waterways. Detailed strategy will be made and implemented in due course of time. It may consist of following stages:-</p> <ol style="list-style-type: none"> 1. Counselling- To inform, advise and guide the candidates regarding RPL 2. Pre-Assessment- To assess the current competencies of the candidates and identifying the gap between the full qualification and current competencies. 3. Orientation & Bridge Training- To train the candidates for bridging the gap. 4. Final assessment & Certification- To assess the candidate for full qualification and certify.
23	Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent and fair and show that these are in line with the requirements of the NSQF:	<ol style="list-style-type: none"> a) The emphasis is on 'learning-by-doing' and practical demonstration of skills and knowledge based on the performance criteria. b) The assessment Sheets are developed by Subject Matter Experts (SME) available with the Resource Support Agency(RSA). c) The assessments sheets are also checked for the various outcome based parameters such as technical knowledge, soft skills, Practical Knowledge, & equipment requirement, etc. d) The assessments are designed so as to assess maximum parts during the practical hands on work. Duties and responsibility for Maritime Skills Foundation course are also assessed. e) The assessment agencies are instructed to hire assessors with integrity, reliability and fairness. Each assessor shall sign a

document with its assessment agency by which they commit that they are not associated with any other assessment agencies or any training partner to avoid any conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments.

- f) The assessment agencies are instructed to Ideally have assessor with right mix of industry experience, academia and these are detailed in Assessment Protocol
- g) The documents of the assessors selected by Assessment Agencies are then forwarded to RSA for further scrutiny.
- h) The selected assessors are provided with unique assessor id by RSA as per the assessment protocol.

The assessment results are backed by evidences collected by assessors.

1. The assessor ensures that the attendances of the trainees are equal to or more than 55%.
2. The assessor needs to verify the authenticity of the candidate by confirming the biometric identity. In case of suspicion, the assessor should authenticate and cross verify trainee's credentials in the enrolment form.
3. The assessor collects the assessment summary sheet with signature of both the assessor and the Implementing Agency's coordinator after successful completion of the assessment.
4. The assessor also needs to carry a photo ID card.
5. The assessor verifies whether the training infrastructure is in compliance to the criteria as set by RSA.
6. The details on assessment are elaborated in the Assessment Protocol developed by RSA
7. Pass certificate will be awarded on attainment of minimum 55 % marks

All accredited Assessment Agency follow the "Assessment Protocol developed by RSA". Each course module comprises of softskills, theoretical part and practical and accordingly the assessment sheets are

		prepared. The marks for the theoretical and practical assessment, in total, are calculated and the candidates acquiring marks equal to or more than 60% are declared pass.
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Please attach any documents giving further information about assessment and/or RPL. Give details of the document(s) here:

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24. ASSESSMENT EVIDENCE

Learning outcomes would be assessed separately for practical as well as theoretical knowledge by the assessment agency.

Title of Course Module: Sagarmala IMO Maritime Foundation Skills.

	Learning Outcomes	Description	Total Weightage
1	Elementary first aid on board ship, in accordance with Section A-VI/1 of the STCW Code.	Covers the requirements of the STCW Convention Chapter VI, Section A-VI/1, table AVI/1-3. On meeting the minimum standard of competence in elementary first aid, a trainee will be competent to take immediate action upon encountering an accident or medical emergency until the of a person with medical first aid skills or the person in charge of medical care on board.	15
2	Fire prevention and fighting in accordance with Section A-VI/1 of the STCW Code.	Covers the requirements of the 1978 STCW Convention as amended Chapter VI, Section A-VI/1, paragraph 2 and Table A-VI/1-2. On meeting the minimum standard of competence in fire prevention and fire fighting, a trainee will be competent to take appropriate measures for the safety of personnel and of the ship and to use fire appliances correctly. The trainee will also have a knowledge of fire prevention.	15
3	Mandatory minimum requirements for seafarers for familiarization, basic safety training and instruction in accordance with section A- VI/1 of the STCW Code.	To prepare a new recruits for a life at sea. Working on a ship can be hazardous occupation for the uninitiated. This course will give new seafarers an insight into the various elements of a ship and working procedures on board so that they adjust to the shipboard environment, and are better prepared to cope with any unforeseen circumstances. To that extent this course is planned to make their transition from a shore to a sea career smooth and give some knowledge of ship's working before they actually step on board a ship. A trainee successfully completing this course will be able to: <input type="checkbox"/> <input type="checkbox"/> Comply with emergency procedures <input type="checkbox"/> <input type="checkbox"/> Take precautions to prevent pollution of the marine environment <input type="checkbox"/> <input type="checkbox"/> Observe safe working practices	15

		<input type="checkbox"/> Understand orders and be understood in relation to shipboard duties <input type="checkbox"/> Contribute to effective human relationships on board ship	
4	Covers the requirements of the 1978 STCW Convention as amended and Code Chapter VI, Section A-VI/1. On meeting the minimum standard of competence in personal survival techniques, a trainee will be able to survive at sea in the event of ship abandonment.	Covers the requirements of the 1978 STCW Convention as amended and Code Chapter VI, Section A-VI/1. On meeting the minimum standard of competence in personal survival techniques, a trainee will be able to survive at sea in the event of ship abandonment. The trainee will be able to: <input type="checkbox"/> Don a lifejacket <input type="checkbox"/> Don and use an immersion suit <input type="checkbox"/> Safely jump from a height into the water <input type="checkbox"/> Right an inverted liferaft while wearing a lifejacket <input type="checkbox"/> Swim while wearing a lifejacket <input type="checkbox"/> Keep afloat without a lifejacket <input type="checkbox"/> Board a survival craft from ship and water while wearing a lifejacket <input type="checkbox"/> Take initial actions on boarding survival craft to enhance chance of survival <input type="checkbox"/> Stream a drogue or sea-anchor <input type="checkbox"/> Operate survival craft equipment <input type="checkbox"/> Operate location devices, including radio equipment.	15
5	Provide the skills required for seafarers with designated security duties in connection with a Ship Security Plan (SSP) to perform their duties in accordance with the requirements of Chapter XI-2 of SOLAS 74 as amended, the ISPS Code, and section A-VI/6 of the STCW Code, as amended.	Those who successfully complete the course should be able to demonstrate sufficient knowledge to undertake the duties assigned under the Ship Security Plan. This knowledge shall include, but is not limited to: 1. Knowledge of current security threats and patterns; 2. Recognition and detection of weapons, dangerous substances and devices; 3. Recognition, on a non-discriminatory basis of characteristics and behavioral patterns of persons who are likely to threaten security; 4. Techniques used to circumvent security measures; 5. Crowd management and control techniques; 6. Security related communications; 7. Knowledge of emergency procedures and contingency plans; 8. Operation of security equipment and systems;	15

		9. Testing, calibration and at-sea maintenance of security equipment and systems; 10. Inspection, control, and monitoring techniques; and 11. Methods of physical searches of persons, personal effects, baggage, cargo, and ship stores.	
6	Basic Understanding of key terminologies in the Maritime Sector	Provides Maritime English	25
7	Soft Skills for professionalism at Sea	Soft skills to improve behaviours, attitude etc.	25
			100

Means of assessment 1

There will be two types of Assessments viz. Formative and Summative. The Formative Assessment will be carried out continuously during the conduct of course and Summative Assessment will be carried out at the end of the course. Details are mentioned under means of Assessment-2. Written test, Practical examination/ Skill test & Viva voice

Means of assessment 2

Means of Formative Assessment (Total marks allotted- 100)

Demonstration 50

Written test 50

Means of Summative Assessment (Total marks allotted- 200)

Written test -100

Practical Test & Vivavoce for Practical Component- 100

Pass/Fail

Qualified or Not qualified at 55%. Only after qualifying the certificate will be awarded.

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SECTION 2

25. EVIDENCE OF LEVEL

OPTION A

Title/Name of qualification/component: Sagarmala IMO Maritime Foundation Course (SIMFC)		Level: 3	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level Descriptors	NSQF Level
Process	He will be able to deliver on the following key goals in seafaring- Accommodation, Deck Maintenance, Cargo operation and follow the orders and instructions as given time to time by seniors. Engine room cleaning and assisting seniors as required. Job holder will be able to respond to elementary first aid, prevent and fight fire, fulfill personal and social responsibility at sea survive on sea and ensure security with occupational health & safety.	The job holder will be carrying out limited range of activities routine and predictable.	Level 3
Professional knowledge	A Job holder needs to know basic maritime tools and equipments , principle & methods used in first aid, fire prevention, personal safety, personal survival and security etc of the ship. A trainee will also have some introductory idea of procedures, compliance, duties to perform in different maritime scenarios.	A job holder has to handle different machine, accessories required according to job . In this way he/ she will work with high efficiency with precision of work.	Level 3
Professional skill	The job holder will be able to: 1. The job holder will be able to recognize and handle types of first aid, fire handling equipment, safety equipments, survival techniques and 2. Recognize, identify and use of instruments	The job holder at this level may identify the Job with the help of machines, tools and accessories and solve the same by applying the knowledge of principle	Level 3

	<p>3. Prepare a plan by these instruments</p> <p>4. Respond to emergencies</p> <p>5. Recognize & identify other miscellaneous instruments used in various scenarios.</p>		
Core skill	<p>Handle, Maintain and inspect equipments according to standard practices or instruction</p> <p>The job holder will be able to</p> <ul style="list-style-type: none"> • read at least two languages, preferably in the local language of the site and basic English • read and interpret safety sign boards, signage, tags etc. provided at workplace • speak in at least one language, preferably in one of the local languages of the site • listen and interpret instructions / communication by co- workers • listen and follow instructions given by supervisor • orally and effectively communicate with team members • engage in basic financial and banking transactions • Understand principles of time management 	<p>The job holder will be able to communicate with minimum required clarity and having basic understanding of social and natural environment.</p>	Level 3
Responsibility	<p>The job holder will work along with his co-worker & helper under his close supervision and he will be responsible for</p> <ul style="list-style-type: none"> - Procedure to ensure that objectives are finished within specific time frame are developed. . - Identify the problem & select the method to be used and apply the same and prepare the final map with great accuracy. - Understanding safety compliance while engaging co-worker in field 	<p>Job holder is required to carry out functions under close supervision using various method and make necessary field book entry.</p>	Level 3

	- Preventing health hazards and loss of human life		
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SECTION 3 EVIDENCE OF NEED

26. What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?

The shipping industry is dependent on uninterrupted supply of trained seafarers. The shipping industry is a truly global labor market and it is common for seafarers to serve on ship flying flag of other than their own nationality. Hence, a high degree of skill export potential and international labor mobility exists. India is one of the leading providers of professionals in the maritime sector and can be the global leader in this domain.

The STCW convention promotes safety of life and property at sea and the protection of the marine environment by establishment of minimum standards of training, certification and watch keeping for the sea farers India is a leading sea farer supplier and more can be done to enhance quality and quantity. Sagarmala focuses on port led prosperity and skills form the core for its work. There is a need to provide NSQF compliance for courses of seafarers so that quantity and quality can be improved. Hence this qualification is of relevance for the Ministry of Shipping.

As per data of DG Shipping, India had around 154349 seafarers in 2017 out of which 83172 were ratings and 71177 were officers. Any seafarer entering into the sea needs to do a mandatory course which is now being tried to align to NSQF framework to increase scale and open to larger number of young people for seafaring jobs.

India has a chance to overtake China and Phillipines to become the largest seafarer supplying nation.

The availability of this qualification will scale up efforts and provides automatically allow to get a CoD certificate will allow large number of trainees to access careers in the maritime industry.

27. Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences

1

The Line Ministry for the course is the Ministry of Shipping. The qualification is submitted by the line Ministry itself.

28. What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF?

This qualification is being conducted under the DG Shipping in compliance to our country's STCW convention of the IMO. This has been restructured to be national standard. Thus there is no other existing or planned qualification (Short term courses) in the foundational maritime aligned with NSQF in the NQR.

29. What arrangements are in place to monitor and review the qualification(s)? What data

will be used and at what point will the qualification(s) be reviewed or updated?

DG Shipping routinely reviews its courses on the outcome of the trainees, placement and self employment data and feedback from concerned industries/employers. The same will be carried out for this qualification. The outcome will be reviewed annually by the line ministry itself.

Please attach any documents giving further information about any of the topics above.

SECTION 4
EVIDENCE OF PROGRESSION

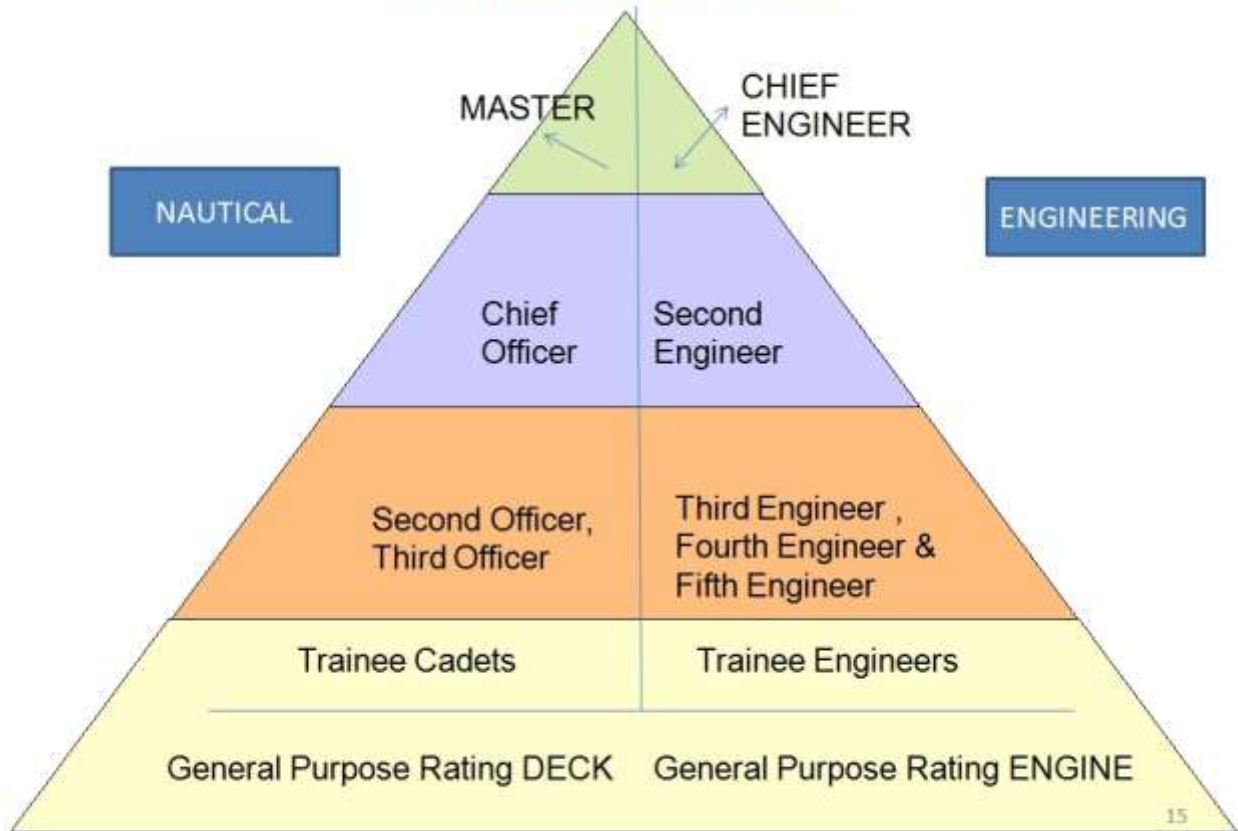
30 . What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?

Please refer to attached career path as per annexure 1 which clearly defines the career path.

ANNEXURE-I

Career map of Maritime Foundation Course

CAREER AT SEA



Sagarmala IMO Maritime Foundation
Course (SIMFC)