

Qualification Code
QG-04-AG-00325-2023-V1.1-ASCI

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Agriculture Skill Council of India (ASCI)
6th floor, GNG Building, Plot No - 10, Sector- 44,
Gurugram, Haryana - 122004

Name and contact details of individual dealing with the submission

Name: Ms. Priyanka Prakash

Position in the organization: Senior Manager - Standards & QA

Address, if different from above

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List of documents submitted in support of the Qualifications File

1. Qualifications Pack - Annexure 1
2. Model Curriculum - Annexure 2
3. Affiliation Protocol- Annexure 3
4. Industry Validations- Annexure 4

Model Curriculum to be added which will include the following:

- Indicative list of tools/equipment to conduct the training
- Trainers qualification
- Lesson Plan
- Distribution of training duration into theory/practical/OJT component

SUMMARY

1	Qualification Title	Fishing Boat Mechanic
2	Qualification Code, if any	AGR/Q5103, v3.0
3	NCO code and occupation	NCO-2015/6223.9900
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	<p>Nature of the qualification</p> <ul style="list-style-type: none"> - a Qualification Pack (QP) <p>The main purpose of the qualification is -</p> <ul style="list-style-type: none"> - to train the incumbent for carrying out the repair and maintenance of a boat and ensuring it is fit for fishing operation. It includes the maintenance of different systems of the boat such as fuel, electrical, hydraulic and steering systems.
5	Body/bodies which will award the qualification	Agriculture Skill Council of India (ASCI)
6	Body which will accredit providers to offer courses leading to the qualification	Agriculture Skill Council of India (ASCI)
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	Yes (Annexure 3)
8	Occupation(s) to which the qualification gives access	Assistance (Fisheries)
9	Job description of the occupation	A Fishing Boat Mechanic is responsible for carrying out the repair and maintenance of a boat and ensuring it is fit for fishing operation. It includes the maintenance of different systems of the boat such as fuel, electrical, hydraulic and steering systems.
10	Licensing requirements	NA

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11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	NA
12	Level of the qualification in the NSQF	Level 4
13	Anticipated volume of training/learning required to complete the qualification	390 hours (Theory: 60, Practical: 180, ES: 60, On the job training: 90)
14	Indicative list of training tools required to deliver this qualification	Attached herewith
15	Entry requirements and/or recommendations and minimum age	<p>Minimum Educational Qualification: 12th grade pass OR Completed 2nd year of 3-year diploma (after 10th) and pursuing regular diploma OR 10th grade pass plus 2-year NTC OR 10th grade pass plus 1-year NTC plus 1 year NAC OR 8th pass plus 2-year NTC plus 1-Year NAC plus CITS OR 10th grade pass and pursuing continuous schooling OR 10th Grade Pass with 2-year relevant experience OR Previous relevant Qualification of NSQF Level 3.0 with minimum education as 8th Grade pass with 3-year relevant experience OR Previous relevant Qualification of NSQF Level 3.5 with 1.5- year relevant experience Min. Age: 18 Years</p>
16	Progression from the qualification (Please show Professional and academic progression)	Fishing Boat Supervisor (L5)

17	Arrangements for the Recognition of Prior learning (RPL)	RPL assessment will be as per normal ASCI assessment process. (ASCI recognizes that there may be candidates who have prior learning experience in the Agriculture Sector and are desirous of being certified. Such candidates can apply to ASCI for testing and certification of their skills. Training Partners will be responsible for identifying and counselling candidates for RPL through mobilization camps and advertisements. The details of the RPL process have been defined by ASCI under the document- Guidelines for Recognition of Prior Learning under PMKVY).			
18	International comparability where known (research evidence to be provided)	Not done as yet			
19	Date of planned review of the qualification.	24-02-2025			
20	Formal structure of the qualification Mandatory components				
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)			Level
		Theory	Practical	OJT	
(i)	Introduction (Bridge Module)	5	0		4
(ii)	AGR/N5106: Carry out repair and maintenance of the boat's fuel and electrical systems	20	95		
(iii)	AGR/N5107: Carry out repair and maintenance of the boat's propeller, hulls, hydraulic and steering systems	20	70		

(iv)	AGR/N9903 Maintain health and safety at the workplace	15	15		
(v)	DGT/VSQ/N0102: Employability Skills (60 Hours) v1.0	60			
	Total	120	180		
	OJT	90 Hours			

SECTION 1

ASSESSMENT

21	<p>Body/Bodies which will carry out assessment:</p> <p>ASCI affiliated assessment bodies.</p> <ol style="list-style-type: none"> 1. SHL India (Pvt.) Ltd 2. Trendsetters Skill Assessors Pvt Ltd 3. Mercer-Mettl 4. SP Institute of Workforce Development (SPIWD) 5. MSAG SI LLP <p>More Assessment Agencies are being empanelled to cover wider geographical area</p>
22	<p>How will RPL assessment be managed and who will carry it out?</p> <p>RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack and will be carried out as per normal ASCI assessment process. The Training Partner or any other authority as prescribed by the Steering Committee will identify and counsel candidates eligible for RPL through mobilization camps and advertisements. The mobilized candidates can be counselled, oriented about the standardized NSQF framework and basis their existing competency will be mapped against the suitable level of the concerned Job role for assessments. The candidates enrolled will be assessed by the Assessment Agency affiliated with the Sector Skill Council on the basis of assessment criteria decided by Sector Skill Council (SSC). The candidate will need to pass in the minimum assessment criteria of a particular QP decided by the SSC. Successfully assessed candidates with a valid Aadhaar or alternate ID (as per process) will be eligible for QP-NOS based Certification.</p>

23	<p>Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.</p> <p>A robust technology enabled assessment methodology has been designed keeping in mind the geographical/Physical constraints and target segment which assess a trainee's knowledge and skill set through three methods:</p> <ol style="list-style-type: none"> An offline Tablet based test through the use of Multiple Choice Text and Picture based questions in vernacular languages Actual demonstration on the field Viva
	<p>ASCI's assessment strategy:</p> <ul style="list-style-type: none"> Question sets are developed as per the weightage of each NOS of the Qualification Pack. Assessment criteria for each Qualification Pack developed, in which each Performance criteria (PC) assigned marks based on NOS Question Bank is developed to assess the theoretical and practical knowledge. To ensure the quality, each trainees get different set of question Empanelment of subject matter expert as assessor primarily from the Industry to assess trainee specifically on practical skills as per Industry demands <p>Assessments are preferably conducted on tablets or pen or papers in regional languages according to the requirement.</p>

Please attach most relevant and recent documents giving further information about assessment and/or RPL.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

ASSESSMENT EVIDENCE

Complete a grid for each component as listed in “Formal structure of the qualification” in the Summary.

NOTE: this grid can be replaced by any part of the qualification documentation which shows the same information – i.e. Learning Outcomes to be assessed, assessment criteria and the means of assessment.

24. Assessment evidences

Title of Component:

Outcomes to be assessed/ NOSs to be assessed	Assessment criteria for the outcome
Means of assessment 1	
Pass/Fail	

Job Role: Fishing Boat Mechanic

Qualification Pack: AGR/Q5103, v3.0

Sector Skill Council: Agriculture Skill Council of India

Assessment Guidelines:

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
6. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

AGR/N5106: Carry out repair and maintenance of the boat's fuel and electrical systems					
PC	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare for the repair and maintenance activities</i>		8	6		6
PC1.	determine the boat's manufacturer, model and maintenance schedule	-	-	-	-
PC2.	arrange manufacturer-approved tools, equipment, spare parts and PPE for the repair and maintenance activities	-	-	-	-
PC3.	prepare the repair and maintenance tools and equipment for use	-	-	-	-
PC4.	select a well-ventilated and hazard-free area for the repair and maintenance activities	-	-	-	-
<i>Repair and maintain the boat's fuel system</i>		8	12		10
PC5.	check the fuel system for leaks and fuel hoses, connections and tank surfaces for wear and tear or damage	-	-	-	-
PC6.	check all the fluid levels such as the fuel, engine oil, power steering, power trim reservoirs and coolant	-	-	-	-
PC7.	change the engine oil, oil filter and drive lubricants as per the maintenance schedule	-	-	-	-
PC8.	repair or replace the worn-out or damaged fuel system components with the new ones	-	-	-	-
PC9.	plug the leakages in the fuel system and replace the defective hoses	-	-	-	-
PC10.	ensure all the fittings and clamps are secured	-	-	-	-
PC11.	test the engine, exhaust and ventilation systems to ensure the correct functioning	-	-	-	-
PC12.	check the fuel consumption to ensure it is as recommended and take appropriate action in case of over-consumption	-	-	-	-
PC13.	ensure the fuel has the recommended ratio of ethanol to protect any damages to the engine	-	-	-	-
<i>Repair and maintain the boat's electrical system</i>		8	10		8

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PC14.	check all electrical connections are clean, tight and corrosion-free remove the corroded	-	-	-	-
PC15.	remove the corroded terminals and use a wire brush to clean them along with all the cable ends	-	-	-	-
PC16.	replace the worn-out or damaged cables	-	-	-	-
PC17.	check the battery is connected safely				
PC18.	check the battery is sufficiently charged and is able to hold charge, using a multimeter	-	-	-	-
PC19.	install a new battery to replace the faulty battery	-	-	-	-
PC20.	test the working and functioning of all the pumps onboard	-	-	-	-
	<i>Optimise resource utilisation</i>	2	4		2
PC21.	optimise the usage of water, electricity and various material in different tasks processes	-	-	-	-
PC22.	connect electrical tools and equipment safely and turn them off when not in use	-	-	-	-
PC23.	plug water leakages to prevent its wastage	-	-	-	-
	<i>Perform waste management</i>	2	4		2
PC24.	segregate waste into appropriate categories	-	-	-	-
PC25.	dispose the non-recyclable waste in an environment-friendly manner	-	-	-	-
PC26.	recycle the recyclable waste appropriately	-	-	-	-
	<i>Practice inclusion at work</i>	2	4		2
PC27.	adopt gender-neutral behaviour at work	-	-	-	-
PC28.	empathise with the Persons with Disabilities (PwD) at work	-	-	-	-
NOS Total		30	40		30
AGR/N5107: Carry out repair and maintenance of the boat's propeller, hulls, hydraulic and steering systems					
	<i>Repair and maintain the propeller and hulls</i>	8	12		8
PC1.	check the propellers for dings, pitting, cracks and distortion	-	-	-	-
PC2.	ensure the balance plates are attached securely and are in good condition	-	-	-	-
PC3.	ensure the propeller is secured and replace its bearings if required	-	-	-	-
PC4.	check the hull for blisters, distortions and cracks	-	-	-	-
PC5.	test the bilge pump for the correct functioning and remove debris and clogging from the pump hose	-	-	-	-

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PC6.	examine the position and condition of the centre bearing on intermediate shafts and long shafts, the protection cap, seals, bearing bracket and bearing body	-	-	-	-
PC7.	ensure the drain plug is secure in its place	-	-	-	-
PC8.	clean the hull, deck, and topsides using clean water and an environmentally safe cleaning solution				
PC9.	remove fouling from the propeller and apply grease on the propeller shaft				
	<i>Repair and maintain the hydraulic system</i>	10	12		10
PC10.	check the hydraulic oil to ensure it is clean and free of any contaminants	-	-	-	-
PC11.	check all the pipes, pipe connections and system hoses for wear and tear or damage	-	-	-	-
PC12.	check the hydraulic system temperature to ensure it is within the recommended limits	-	-	-	-
PC13.	maintain the recommended level of hydraulic fluid	-	-	-	-
PC14.	clear of dust and debris around the dipsticks and fuel plugs	-	-	-	-
PC15.	clean and replace the hydraulic fluid filters with new ones as per the maintenance schedule	-	-	-	-
PC16.	check the hydraulic rod for such as corrosion and pitting, and clean it appropriately	-	-	-	-
PC17.	apply new hydraulic system seals to replace the worn-out seals	-	-	-	-
PC18.	ensure the fittings are tight and couplers are clean	-	-	-	-
PC19.	carry out maintenance of the hydraulic valves	-	-	-	-
	<i>Repair and maintain the steering system</i>	10	12		10
PC20.	check the engine order telegraph to ensure proper functioning and response to the wheel	-	-	-	-
PC21.	check the tightness of all the fasteners and fittings in the steering system	-	-	-	-
PC22.	check all the hoses and fittings for wear and tear, kinks and leaks	-	-	-	-
PC23.	check for any bends, nicks or damage to the steering ram shaft	-	-	-	-

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PC24.	check the belts and cables for wear and tear or damage	-	-	-	-
PC25.	ensure the belts fit tightly around the pulleys to prevent slipping	-	-	-	-
PC26.	check actuating system tank for the required oil level and refill it, if necessary				
PC27.	check the rudder carrier bearing and bottom seal gland and apply grease, if necessary	-	-	-	-
PC28.	test the pump's response to the gear	-	-	-	-
PC29.	check the steering system for abnormal noise and heat and take the necessary action	-	-	-	-
PC30.	test the steering system to ensure an appropriate and quick response from the engine and driving unit	-	-	-	-
PC31.	ensure the steering cables and connections are in a good condition	-	-	-	-
PC32.	replace the worn-out belts and hoses with the new ones	-	-	-	-
PC33.	repair the faulty hydraulic and steering systems	-	-	-	-
PC34.	remove the support rod from the steering/ tilt tube, clean used grease and apply new grease on the support rod and the tilt tube	-	-	-	-
PC35.	remove the steering wheel and re-grease the wheel shaft	-	-	-	-
	<i>Maintain the records and schedule the maintenance</i>	2	4	-	2
PC36.	maintain the manual and/ or electronic record of repair and maintenance activities using the physical registers and/ or the relevant computer application	-	-	-	-
PC37.	schedule the next maintenance as per the manufacturer-recommended maintenance schedule	-	-	-	-
	NOS TOTAL	30	40		30
AGR/N9903: Maintain health and safety at the workplace					
	<i>Maintain personal hygiene</i>	10	5		10
PC1.	wash hands, legs and face with soap/alcohol-based sanitizer at reasonable intervals	-	-	-	-
PC2.	wash the worn clothes with soap and sun-dry before use next time	-	-	-	-

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PC3.	ensure the face is covered with mask or three layers of cloth-piece	-	-	-	-
PC4.	follow the workplace sanitisation norms including distancing from sick people	-	-	-	-
Maintain clean and safe workplace		15	15		15
PC5.	carry out basic safety checks before operation of all tools, implements, and machinery and report identified hazards to the supervisor	-	-	-	-
PC6.	wear appropriate Personal Protective Equipment (PPE) while performing work in accordance with the workplace policy	-	-	-	-
PC7.	follow the instructions mentioned on the labels of chemicals/pesticides/fumigants etc. to avoid hazards	-	-	-	-
PC8.	assess risks prior to performing manual handling jobs, and work according to currently recommended safe practices	-	-	-	-
PC9.	sanitize equipment, tools and machinery before and after use	-	-	-	-
PC10.	use equipment and materials safely and correctly and return the same to designated storage after use	-	-	-	-
PC11.	dispose waste safely and correctly in the designated area	-	-	-	-
PC12.	recognize risks to bystanders and take required action to reduce the risks	-	-	-	-
PC13.	work in a manner which minimizes environmental damage, ensuring all procedures and instructions for controlling risks are followed	-	-	-	-
PC14.	report any accidents, incidents or problems without delay to an appropriate person and take necessary immediate action to reduce further danger	-	-	-	-
PC15.	follow government / workplace advisories in case of outbreak of any disease/disaster	-	-	-	-
Administer appropriate emergency procedures		15	5		10

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PC16.	follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to the location of emergency, as per the workplace requirements	-	-	-	-
PC17.	use emergency equipment in accordance with manufacturer's specifications and workplace requirements	-	-	-	-
PC18.	report provide treatment appropriate to the patient's injuries in accordance with recognized first aid techniques	-	-	-	-
PC19.	recover (if practical), clean, inspect/test, refurbish, replace and store the first aid equipment as appropriate	-	-	-	-
PC20.	report details of first aid administered in accordance with workplace procedures	-	-	-	-
NOS Total		40	25		35

DGT/VSQ/N0102: Employability Skills (60 Hours)

	<i>Introduction to Employability Skills</i>	1	1	-	-
PC1.	identify employability skills required for jobs in various industries	-	-	-	-
PC2.	identify and explore learning and employability portals	-	-	-	-
	<i>Constitutional values – Citizenship</i>	1	1	-	-
PC3.	recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
PC4.	follow environmentally sustainable practices	-	-	-	-
	<i>Becoming a Professional in the 21st Century</i>	2	4	-	-
PC5.	recognize the significance of 21st Century Skills for employment	-	-	-	-
PC6.	practice the 21st Century Skills such as Self- Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative	-	-	-	-

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	thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life				
	<i>Basic English Skills</i>	2	3	-	-
PC7.	use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
PC8.	read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
PC9.	write short messages, notes, letters, e-mails etc. in English	-	-	-	-
	<i>Career Development & Goal Setting</i>	1	2	-	-
PC10.	understand the difference between job and career	-	-	-	-
PC11.	prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-
	<i>Communication Skills</i>	2	2	-	-
PC12.	PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-	-	-
PC13.	PC13. work collaboratively with others in a team	-	-	-	-
	<i>Diversity & Inclusion</i>	1	2	-	-
PC14.	communicate and behave appropriately with all genders and PwD	-	-	-	-
PC15.	escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
	<i>Financial and Legal Literacy</i>	2	3	-	-
PC16.	select financial institutions, products and services as per requirement	-	-	-	-
PC17.	carry out offline and online financial transactions, safely and securely	-	-	-	-
PC18.	identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-

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PC19.	identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
	<i>Essential Digital Skills</i>	3	4	-	-
PC20.	operate digital devices and carry out basic internet operations securely and safely	-	-	-	-
PC21.	use e- mail and social media platforms and virtual collaboration tools to work effectively	-	-	-	-
PC22.	use basic features of word processor, spreadsheets, and presentations	-	-	-	-
	<i>Entrepreneurship</i>	2	3	-	-
PC23.	identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
PC24.	develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
PC25.	identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
	<i>Customer Service</i>	1	2	-	-
PC26.	identify different types of customers	-	-	-	-
PC27.	identify and respond to customer requests and needs in a professional manner.	-	-	-	-
PC28.	follow appropriate hygiene and grooming standards	-	-	-	-
	<i>Getting ready for apprenticeship & Jobs</i>	2	3	-	-
PC29.	create a professional Curriculum vitae (Résumé)	-	-	-	-
PC30.	search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
PC31.	apply to identified job openings using offline /online methods as per requirement	-	-	-	-
PC32.	answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
PC33.	identify apprenticeship opportunities and register for it as per guidelines and	-	-	-	-

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	requirements				
	NOS Total	20	30	-	-

SECTION 2
EVIDENCE OF LEVEL

OPTION B

Title/ Name of qualification/ component: Fishing Boat Mechanic			Level: 4
NSQF Domain	NSQF Domain	NSQF Domain	NSQF Domain
Process	<ul style="list-style-type: none"> • Prepare for the repair and maintenance activities • Repair and maintain the boat's fuel system • Repair and maintain the boat's electrical system 	A Fishing Boat Mechanic is responsible for carrying out the repair and maintenance of a boat and ensuring it is fit for fishing operation. It includes the maintenance of different systems of the boat such as fuel, electrical, hydraulic and steering systems.	4
Professional knowledge	<ul style="list-style-type: none"> • Maintain clean and safe workplace • Administer appropriate emergency procedures • Optimize resource utilization • Perform waste management 	The job holder is expected to have factual knowledge of field of knowledge or study. For example, the job holder is expected to have knowledge of basic mechanics and working of engines and all associated pumps, seamanship and rope work, operation and maintenance of all deck machinery like winches and other hoists used for fishing operations, knowledge of machinery usage and handling in the following conditions during day and night: while underway and making way through the water, during	4

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		<p>fishing operations, when engine is stopped and drifting, at anchor or alongside a wharf, how to communicate distress during emergency by VHF radio, signals to be displayed while in distress or emergency, how to use safety equipment, like donning of a life jacket, knowledge of on board safe working practices</p>	
Professional skill	<ul style="list-style-type: none">• Optimise resource utilisation• the process of carrying out repair and maintenance of boat• Practice inclusion at work• the criteria for segregating waste into appropriate categories• how to recycle and dispose different types of waste• benefits of resource optimisation• the importance of adopting inclusive practices for all genders and PwD at work	<p>The job holder is expected to recall and demonstrate practical skill, routine and repetitive in narrow range of application, using appropriate rule and tool, using quality concepts. For instance, the job holder has to assist in deciding when to turn back during emergency, rough weather, identify potential dangers early enough and avert emergencies, plan to reach a fishing ground and return home using the shortest and safest route, maintain good relationships with staff, send distress messages through all available means in adverse situations, discuss possible solutions with team for problem solving, apply domain information about navigation related processes and technical knowledge about tools and equipment, use common sense and make judgments on day to day basis, use reasoning skills to identify and resolve basic problems, use intuition to detect any potential problems which could arise during operations. The job holder should check the condition of fire extinguishers, their expiry dates, their locations and ensure there are no obstructions in accessing them during an emergency test fire hoses if any</p>	4

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		for leaks, count safety equipment like life jackets so that there's enough for all the crew, check if the securing straps are in good order, and ensure that there is no obstruction in accessing them during an emergency, hold the bow of the boat in an angle that will result in minimum movement to the boat and does not overturn it, estimate the weather condition and check if it's worsening or improving and decide whether to turn back or not, keep a listening watch on the marine VHF radio for any warnings, gauge the level of fuel in the tank and ascertain the quantity accurately,	
Core Skills	<ul style="list-style-type: none">• Repair and maintain the propeller and hulls• Repair and maintain the hydraulic system• Repair and maintain the steering system	The job holder is expected to possess language to communicate in written or oral with required clarity, skill to basic arithmetic and algebraic principles, basic understanding of social, political, and natural environment. For example, read gauges, dials and symbols associated with all on-board machinery, its safe operation and maintenance, keep a log of important events on board, broadcast a distress/emergency message, by voice, in basic English, in the approved international format of marine radio communications listen to broadcasts made by other boats or ships, convey the nature of the emergency quickly and clearly by radio, in case there is a need.	4
Responsibility	<ul style="list-style-type: none">• Repair and maintenance of a boat• Maintenance of different systems• Checking boat for fishing operation	A Fishing Boat Mechanic is responsible for carrying out the repair and maintenance of a boat and ensuring it is fit for fishing operation. It	4

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		includes the maintenance of different systems of the boat such as fuel, electrical, hydraulic and steering systems.	
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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?			
Basis				
Need of the qualification	<p>While collecting data from the companies for the occupational map, we also took feedback from industry, training institutions which was collected with respect to roles for which qualification packs development, was to be prioritized. This was largely based on volume of people required, quantitative and qualitative shortfall which the industry feels they face. Governing council of ASCI and Occupational Standards Committee which comprises of experts & senior leaders gave final approval and endorsement for the same.</p> <p>Fisheries and aquaculture contribute to 0.79 percent to the National GDP and 4.39 percent to agriculture and allied activities. Marine Fisheries contributes to food security and provides direct employment to over 1.5 million fishermen besides others indirectly dependent on this sector. Fisheries and allied sector is transforming into an industry at a fast pace and hence there is a demand for skilled human resource for the development of standard products and services within this sector. The existing potential for production within this sector is expected to rise with increased contribution of the fisheries sector to food and nutritional security.</p>			
Industry Relevance	<p>Validations have been received from CIFA, Professor KUFOS, Central Agricultural University (Imphal), Krishi Vigyan Kendra Thoubal, SAU- Najaji Deshmukh Veterinary Science University, Central Marine Fisheries Research Institute.</p>			
Usage of the qualification	<p>An NSQF aligned training to the persons involved in grooming of Fishing Boat Mechanic shall provide opportunities to the incumbents for horizontal and vertical career progression. Competency-based training shall imbibe professionalism in the job-role. Being an important and ever-expanding job, the job-role of Fishing Boat Mechanic may well be included in the vocational education stream of school education.</p> <p>The Qualification Pack shall also be helpful in conducting Recognition of Prior Learning of the Fishing Boat Mechanic</p>			
Estimated uptake	QP/Job Role Name	"States where Demand exist	"District where Demand exist	Projections for the next 3 years

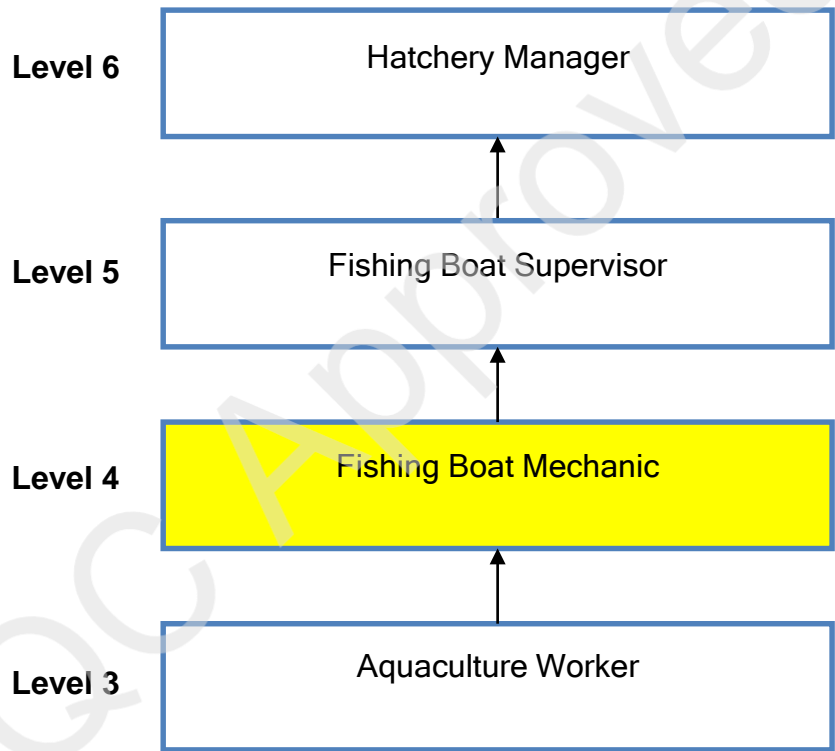
NSQF QUALIFICATION FILE**Approved in 16th NSQC Meeting – NCVET - Dated- 24th February 2022****Approved on file dated 07.02.2023**

	Fishing Boat Mechanic	Kerala, Karnataka, Tamil Nadu, Odisha, Andhra Pradesh, Daman & Diu, Andaman & Nicobar Islands, Maharashtra, Goa, West Bengal, Himachal Pradesh, J&K, Jharkhand, Chhattisgarh & Uttarakhand	Various district of mentioned States	1000
27	Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences Have received concurrence from the Ministry of Fisheries, Animal Husbandry and Dairying			
28	What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification This is the revised version of the already NSQC approved QP. The revision has been undertaken as the QP is going to expire soon.			
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 revised or updated? Specify the review process here Any institution or individual is welcome to send the feedback, which is recorded and considered during next review cycle. Communication will be sent for any feedback to all the main stakeholders/users one month prior to the review of the qualifications pack. A formal review is scheduled in three years.			

Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

SECTION 4**EVIDENCE OF PROGRESSION**

30	<p>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? Show the career map here to reflect the clear progression</p> <p>Career path in the agriculture sector is generally in terms of activities done & ownership of responsibility because they are primarily self-wage employment/ entrepreneurship roles.</p> <p>Annexure 1: Career Map of Fishing Boat Mechanic</p>  <pre> graph BT L3[Level 3: Aquaculture Worker] --> L4[Level 4: Fishing Boat Mechanic] L4 --> L5[Level 5: Fishing Boat Supervisor] L5 --> L6[Level 6: Hatchery Manager] </pre> <p>The diagram illustrates a career progression path for the Fishing Boat Mechanic qualification. It consists of four levels, each represented by a rectangular box. The boxes are arranged vertically, with Level 3 at the bottom and Level 6 at the top. Arrows point upwards from Level 3 to Level 4, from Level 4 to Level 5, and from Level 5 to Level 6, indicating the progression. The boxes are labeled as follows:</p> <ul style="list-style-type: none"> Level 6: Hatchery Manager Level 5: Fishing Boat Supervisor Level 4: Fishing Boat Mechanic (This box is highlighted in yellow) Level 3: Aquaculture Worker
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