

Model Curriculum

Marine Capture Fisherman

SECTOR: AGRICULTURE & ALLIED
SUB-SECTOR: AGRICULTURE CROP PRODUCTION
OCCUPATION: CAPTURE FISHING
REF ID: AGR/Q5001, v1.0
NSQF LEVEL: 4



Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

AGRICULTURE SKILL COUNCIL OF INDIA

for the

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/Qualification Pack: **'Marine Capture Fisherman'** OP No. **'AGR/Q.5001.NSQF Level 4'**

Date of issuance: March 15th, 2015

Valid up to: March 31st, 2016

* Valid up to the next review date of the Qualification Pack



Authorised Signatory
(Agriculture Skill Council of India)

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Marine Capture Fisherman

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "Marine Capture Fisherman", in the "Agriculture & Allied" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Marine Capture Fisherman		
Qualification Pack Name & Reference ID. ID	AGR/Q5001, v1.0		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	No Formal Education		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Assist in fishing operations: Prepare net, crafts for fishing, pre operational activities • Keep the working area in order and clean: post fishing activities, maintain the cleaned area • Fishing and sorting: Fishing and sorting of harvested fishes <p>Store the fish: Post fishing activities</p>		

This course encompasses 3 out of 3 National Occupational Standards (NOS) of “Marine Capture Fisherman” Qualification Pack issued by “Agriculture Skill Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Introduction Theory Duration (hh:mm) 5:00 Practical Duration (hh:mm) 5:00 Corresponding NOS Code	<ul style="list-style-type: none"> • General Discipline in the class room (Do’s & Don’ts) • Role of a Fisherman • Identification of fish groups • High value fishes • Basic skills of communication • Basic reading capabilities to enable reading of signs, notices and/or cautions at site. 	Laptop, white board, marker, projector, netting material like Nylon, mending devices
2	Perform pre fishing activities Theory Duration (hh:mm) 35:00 Practical Duration (hh:mm) 40:00 Corresponding NOS Code AGR / N5001	<ul style="list-style-type: none"> • Understand and select the right craft and fishing methods. • Know about the basic pre fishing preparations such as to check for the nets, pots, crank shaft, and other vessel equipments. 	Laptop, white board, marker, projector, Fishing craft and gear, floats and other gear accessories, anchor, etc
3	Capture the fish Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 20:00 Corresponding NOS Code AGR/N5002	<ul style="list-style-type: none"> • Understand the Fish behavior • Identification of Fish groups • Operate row boats • Select and use the appropriate equipment for fishing • Have adequate safety equipments 	Laptop, white board, marker, projector, boat, fishing Craft and Gears with accessories such as floats, life jacket, lamps (for fishing in night) etc
4	Perform post fishing activities Theory Duration (hh:mm) 10:00	<ul style="list-style-type: none"> • Understand and perform sorting & grading of harvested fishes • Storage and icing of harvested fishes • Transportation of stored fishes • Selling • Know the deck cleaning method 	Laptop, white board, marker, projector, cool chamber, vehicle, Fish baskets for icing, deck cleaning

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Practical Duration (hh:mm) 20:00 Corresponding NOS Code AGR/N5003	<ul style="list-style-type: none"> Maintenance of the deck Maintain the documentation process 	equipments etc
	Total Duration: Theory Duration (hh:mm) 60:00 Practical Duration (hh:mm) 90:00	Unique Equipment Required: Laptop, white board, marker, projector, Fishing craft and gears, cool chamber, vehicle, fishing Craft and Gears with accessories such as floats, life jacket, lamps (for fishing in night)	

Grand Total Course Duration: **150 Hours, 0 Minutes**

(This syllabus/ curriculum has been approved by [Agriculture Skill Council of India](#))

Trainer Prerequisites for Job role: "Marine Capture Fisherman" mapped to Qualification Pack: "AGR/Q5001, v1.0"

Sr. No.	Area	Details
1	Description	Trainer is responsible for educating the trainees – using various equipments, choosing the appropriate crafts and methods, to catch fish and marine life.
2	Personal Attributes	Trainer should be Subject Matter Expert. He/ she should have good communication, leadership, observation and practical oriented skills.
3	Minimum Educational Qualifications	Bachelor's Degree, Preferably in Fisheries
4a	Domain Certification	Certified for Job Role: " <u>Marine Capture Fisherman</u> " mapped to QP: " <u>AGR/Q5001, v1.0</u> ". Minimum accepted score is 80%.
4b	Platform Certification	Certified for the Job Role: "Trainer", mapped to the Qualification Pack: "SSC/Q1402". Minimum accepted score is 70%
5	Experience	<ul style="list-style-type: none"> • M.Sc (Fisheries) • B.Sc.(Fisheries) with 1 Year experience • BSc Agriculture/Zoology graduate with 3 Years of experience in relevant field • Any +2 having 7/8 Years of experience in Culture Fisheries

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Marine Capture Fisherman
Qualification Pack	AGR/Q5001, v.1.0
Sector Skill Council	Agriculture

Sr. No.	Guidelines for Assessment
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	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below)
4	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria
5	To pass the Qualification Pack, every trainee should score a minimum of 60% in aggregate and 40% in each NOS
6	The marks are allocated PC wise; however, every NOS will carry a weight age in the total marks allocated to the specific QP

Assessable Outcome	Assessment Criteria	Total Marks	Marks Allocation		
			Out Of	Theory	Skills Practical
1.AGR/Q5001 Perform pre fishing activities	PC1. decide on the species to capture depending on the climatic and environmental condition, region and their seasonal availability	70	2	2	0
	PC2. select a suitable method from active and passive gears depending on the species to capture and duration of the trip		2	0	2
	PC3. adjust and alter the net according to the method chosen and the species type for capture		2	0	2
	PC4. determine the hook size and type of bait to be used according to the fish species planned to capture		2	2	0
	PC5. select the trap nets according to the size of mesh used		4	0	4
	PC6. select the mesh size depending upon the species and the size range being targeted		2	2	0

PC7. decide appropriate capture method resulting in high productivity	2	2	0
PC8. decide on the specific and cost effective crafts to be used for fishing from mechanized or non-mechanized types	2	2	0
PC9. take necessary measures and study the weather before the capture	2	2	0
PC10. operate mechanized and non-mechanised boats	2	2	0
PC11. equip the fishing boats with appropriate consumables for long stays at sea	4	2	2
PC12. ensure boats contain refrigerators to keep the fish fresh until returning to shore	4	0	4
PC13. prepare the fishing materials such as nets, pots, traps, spears and dredges	2	0	2

PC14. ensure the rod, reel, line, hooks and bait, tongs, rakes, hoes, shovels and wire trap can withstand the rougher conditions and tougher fish	4	0	4
PC15. load and unload vessel equipment and supplies, by hand or using hoisting equipment	2	2	0
PC16. pull and guide nets, traps, and lines onto vessels, by hand or using hoisting equipment	2	2	0
PC17. ensure the weather condition is suitable for fishing	2	2	0
PC18. oversee the purchase of supplies, gear and equipment such as fuel, netting and cables	6	2	4
PC19. obtain the required fishing permits and licenses	6	2	4
PC20. study and familiarize with the habits and behaviour of the type of fish that's planned to focus on, natural habitat of the fish in order to increase their chances of having a great catch	4	2	2

	PC21. understand the feeding and breeding habits on the fish type that is planned to be captured		6	3	3
	PC22. have awareness on seamanship, vessel operations, marine safety, navigation, vessel repair, and fishing gear technology		4	2	2
	PC23. estimate costs of operations and plan fishing season budgets accordingly		2	2	0
	Total		70	35	35
2. AGR/Q5002 Capture the fish	PC1. operate rowboats, dinghies or skiffs to transport fishers, divers and hookers	70	6	3	3
	PC2. put fishing equipment into the water and anchor or tow equipment, according to the fishing method used		4	2	2
	PC3. locate fish using fish finding equipment		6	0	6

PC4. operate fishing gear letting out and pulling in nets and lines, and extract the catch from the nets or the line's hooks	6	0	6
PC5. use dip nets to prevent the escape of small fish and gaffs to facilitate the landing of large fish	5	0	5
PC6. steer vessels and operate navigational instruments	4	0	4
PC7. prepare adequate emergencies in the boats	5	0	5
PC8. have adequate safety equipments	4	0	4
PC9. ensure the necessary first-aid kits or even necessary measures to avoid drowning	3	3	0
PC10. practice caution when handling fish in deep sea	3	3	0

	PC11. capture high value fish which earn good profits		2	2	0
	PC12. ensure that the capture fish value exceeds the operating cost involved and results in profit		2	2	0
	Total		70	35	35
3.AGR/Q5003 Perform post fishing activities	PC1. maintain engines, fishing gear, and other on-board equipment by doing minor repairs	60	4	3	1
	PC2. ensure decks are clear and clean at all times and that the vessel's engines and equipment are kept in good working condition		3	2	1
	PC3. repair fishing gears, vessel engines, equipments, nets and accessories when necessary		4	3	1
	PC4. wash decks, conveyors, knives, and other equipment, using brushes, detergents and water		3	2	1

PC5. remove catches from fishing equipment and measure them to ensure compliance with legal size	3	1	2
PC6. process the fish caught on board and prepare for sale	5	2	3
PC7. sort the species according to buying capability or customer requirements	8	4	4
PC8. wash, pack and store fish with salt and ice to bring them back to shore for sale	6	2	4
PC9. ensure the fish is maintained fresh after the capture till sale	6	2	4
PC10. transport fish to processing plants or to buyers	6	3	3
PC11. sell the fish directly contacting and negotiating with buyers or through a fish auction	6	2	4

			6	4	2
	PC12. record in logbooks specifics of fishing activities such as dates, harvest areas, yields, and weather and sea conditions				
			60	30	30
	TOTAL	200	200	100	100
	<u>Percentage Weightage:</u>			<u>50%</u>	<u>50%</u>
	<u>Minimum Pass% to qualify (aggregate):</u>			<u>60%</u>	