

Model Curriculum

Pearl Culture Technician

SECTOR: AGRICULTURE & ALLIED
SUB-SECTOR: FISHERIES
OCCUPATION: AQUACULTURE
REF ID: AGR/Q4913, 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: '**Pearl Culture Technician**' QP No. '**AGR/Q4913 NSQF Level 4**'

Date of Issuance: November 20th, 2017

Valid up to: March 31st, 2021

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



Authorised Signatory
(Agriculture Skill Council of India)

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Pearl Culture Technician

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Pearl Culture Technician”, in the “Agriculture & Allied” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Pearl Culture Technician		
Qualification Pack Name & Reference ID.	AGR/Q4913, v1.0		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	Class 10, preferably		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Perform pre- pearl culture activities: identify pearl producing oyster, select suitable site, soil profile and water quality for culture, prepare pearl culture units, prepare nucleus, familiarize with surgical instruments, collect and acclimatize the oyster and undertake pre-operative care unit maintenance. • Perform surgical operation: collect oyster from pre operative care units, clean and arrange them in trays filled with water, sterilize surgical instruments, prepare graft tissue, perform surgical implantations. • Perform post operation activities: transfer operated oyster in post care unit tanks filled with clean water, monitor implanted oyster, medicate water to avoid infection • Perform culture activities: ensure health status of oyster and condition of shell, maintain water level, ensure periodic assessment of natural food, ensure periodic sampling of pearl, condition of pearl culture units and rafts • Perform pearl harvesting: select implanted oyster from pearl culture units, transfer to laboratory, cleaning of oysters, careful collection of pearls, cleaning of pearl, categorize as per size, shape, colour, lustre. • Perform value addition and marketing activities: perform value addition by using pearls in necklace, rings (finger and toe), bangles, pendant survey of market to see the demand and fixation of price, use designer implants of various shapes and sizes to produce designer pearls 		

Trainer Prerequisites for Job role: “Pearl Culture Technician” mapped to Qualification Pack: “AGR/Q4913, v1.0”

Sr. No.	Area	Details
1	Description	Trainer is responsible for educating the trainees – thorough knowledge of pearl culture, identification of species, preparation of nucleus, surgical implantation pond culture of pearl oyster and production of quality pearls
2	Personal Attributes	Trainer should be a Subject Matter Expert. He/ she should have good communication, leadership, observation and practical oriented skills.
3	Minimum Educational Qualifications	Diploma in Fisheries
4a	Domain Certification	Certified for Job Role: “ <u>Pearl Culture Technician</u> ” mapped to QP: “ <u>AGR/Q4913, v1.0</u> ”. Minimum accepted score is 80%.
4b	Platform Certification	Certified for the Job Role: “Trainer”, mapped to the Qualification Pack: “MEP/Q0102”. Minimum accepted % as per respective SSC guidelines is 80%.
5	Experience	<ul style="list-style-type: none"> • B . F. Sc/ M.F.Sc./ M.Sc. in Marine Biology/ Industrial Fisheries/ Mariculture • B. Sc (Fisheries)/M.Sc. Zoology with 1 year of relevant work experience • B. Sc. Zoology with 2 years of relevant work experience • Diploma (more than 12 months) in fisheries with 3 years of relevant work experience

Annexure: Assessment Criteria

Job Role	Pearl Culture Technician
Qualification Pack	AGR/Q4913, v1.0
Sector Skill Council	Agriculture Skill Council of India

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 center (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 70% in aggregate
6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

	PC16. use first aid kit as and when required and provide appropriate treatment in case of any injuries		5	1	4
	PC17. ensure maintenance of suitable soil and water quality parameters at all times with frequent tests		5	2	3
	PC18. ensure specified feed is provided to organisms at regular intervals and excess feeding is avoided		5	2	3
	PC19. carry out regular inspection of organisms for possible presence of parasites, pathogenic infections, any phenotypic disorder, spot, etc. which are usually the signs of ailments or disease outbreak		5	2	3
	PC20. ensure all nets, utensils and vessels used are decontaminated and clean		4	1	3
	PC21. implement effective security measures for prevention of theft/sabotage		5	1	4
			100	30	70