Aquaculture Worker

(Model Curriculum for Recognition of Prior Learning)

SECTOR:	AGRICULTURE & ALLIED
SUB-SECTOR:	FISHERIES
OCCUPATION:	AQUACULTURE
REF ID:	AGR/Q4904, V1.0
NSQF LEVEL:	3

Aquaculture Worker

CURRICULUM / SYLLABUS

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

Program Name	Aquaculture Worker	
Qualification Pack Name & Reference ID. ID	AGR/Q4101, v1.0	
Version No.	1.0	Version Update Date
Pre-requisites to Training	Class 5, preferably	
Training Outcomes : Orientation and Soft Skill	After completing this programme, participants will be able to: - Identify personal strengths and value systems: safe work habits, achievement motivation, time management, anger management, stress management. - Prepare for employment and self-employment: preparing for an interview, effective resume writing, basic workplace terminology. - Illustrate the basics of entrepreneurship and identify new business opportunities - Develop personality and learn general ethics and discipline - Learn about health and safety hazards and hygiene at work place - Learn effective communication skills - Learn about importance of RPL certification and process of assessment	
Training Outcomes : Bridge Course	**After completing this programme, participants will be able to:** **Identify/familiarize with different species for culture operations:** finfish and/or shellfish **Assist in pond preparation activities:** water intake activities, water treatment, pre-stocking pond preparation **Assist in various culture operations:** post-stocking pond preparation like feeding; periodic soil, water and fish sampling and netting operation, etc. **Assist in harvest & post-harvest activities:** understand marketable size of fish and ensure desirable harvesting with minimum handling **Practice health & safety at the work place:** Well versed with health, safety and sanitation practices for self and spawn/seedlings/fish.	

1. Orientation and Soft Skill Details

Sr. No.	Module	Key Learning Outcomes	Equipment Required
A.	**Orientation , General Discipline, doubts/gaps in Domain Training and Health and Safety**		
1.	**Orientation, General Discipline, doubts/gaps in Domain Training and Health and Safety** **Theory Duration (hh:mm)** **06:00** **Practical Duration (hh:mm)** **00:00**	• Domain Training (clarifying any doubts/gaps regarding Job Role) • Understanding Qualification Packs, NOS • Understanding about NSQF framework and applied level descriptors • Understand skill development ecosystem, roles of various stakeholders • Recognize the importance of general discipline in the class room (dos and don'ts) • List expectations from the program • Outline the objectives of the RPL and importance of skill and certification • Identify risks to health and safety at the workplace and measures to be taken to control them	White Board, Marker, Laptop, projector,
B.	**Soft Skills and Entrepreneurship Tips specific to the Job Role**		
1.	**Entrepreneurship** **Theory Duration (hh:mm)** **02:00**	• Discuss the concept and significance of entrepreneurship and the characteristics of an entrepreneur • List the traits of an effective team and team dynamics • Resolve problems by identifying important problem-solving traits • Discuss how to identify new business opportunities within your business • Follow the entrepreneurial process and explain the entrepreneurship ecosystem • Identify key schemes of the govt. and banks to promote entrepreneurship • Define the relationship between entrepreneurship and risk appetite and entrepreneurship and resilience • Importance of book keeping and accounts management. • Understand market dynamics and value chain of agri products. • Understanding formation of cooperatives, FPO, FPC and enterprise creation	Laptop, white board, marker and projector, SWOT activity: pen and paper individual exercise, charts, coloured pens, Group Activity: poster making on entrepreurship ecosystem. Activity: SMART Goal writing

	Personal Strengths and Value Systems **Theory Duration (hh:mm)** **01:00** **Practical Duration (hh:mm)** **00:00**	• Self-Improvement, inculcate leadership qualities. • Importance of Discipline in managing small business. • Discuss how to maintain a positive attitude • List your strengths and weaknesses • Describe the importance of honesty in entrepreneurs • Discuss the benefits of time management and applied techniques • Apply tips for anger management and stress management • Effective interpersonal skills, listening and speaking skills.	Workbook exercises on health standards, Laptop, activity on strengths and weaknesses, white board, marker, projector
	Preparing for Employment and Self-Employment **Theory Duration (hh:mm)** **01:00** **Practical Duration (hh:mm)** **00:00**	• Follow the steps to prepare for an interview • Create an effective Resume • Conduct mock interviews • Identify the most frequently asked interview questions and how to answer them	Laptop, white board, marker, projector, sample CVs, Mock interviews, role plays, role play briefs, FAQs, quiz on basic workplace technologies.
C.	**Familiarization with Assessment Process and Terms**		
1	**Familiarization with Assessment Process and Terms** **(hh:mm)** **02:00**	• Familiarization about assessment process • Understanding the need of assessment • Preparation tips for assessment • Doubt clearance session	
	Total Duration: **Theory Duration (hh:mm)** **12:00** **Practical Duration (hh:mm)** **00:00**	Laptop, white board, marker and projector, SWOT activity: pen and paper individual exercise, charts, coloured pens, Group Activity: poster making on entrepreurship ecosystem. Activity: SMART Goal writing	

2. Bridge Course Details

This course encompasses 3 out of 3 National Occupational Standards (NOS) of "Aquaculture Worker" Qualification Pack issued by "Agriculture Skill Council of India".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	**Introduction** **Theory Duration** (hh:mm) 04:00 **Practical Duration** (hh:mm) 01:00 **Corresponding NOS Code** Bridge Module	• Study the scope & importance of Aquaculture in India. • Understand the role of an Aquaculture worker and the progression pathways • Identify the Different species that can be identified	Laptop, white board, marker, projector
2	**Assist in performing pond operation activities** **Theory Duration** (hh:mm) 07:00 **Practical Duration** (hh:mm) 14:00 **Corresponding NOS Code** AGR/N4919	• Assist in water intake activities from the source to reservoir to pond • Undertake water treatment • Control aquatic weeds & insects • Undertake fertilization of pond • Undertake acclimatization procedures • Stocking the seed at appropriate density & species ratio	Laptop, white board, marker, projector, rope, first aid kit
3	**Assist in carrying out culture operation** **Theory Duration** (hh:mm) 07:00 **Practical Duration** (hh:mm) 14:00 **Corresponding NOS Code** AGR/N4920	• Assist in post-stocking and pond culture operations • Carry out proper feeding • Carry out periodic soil water and fish sampling and netting operations • Apply manure/fertilizer and therapeutics as prescribed • Take care of the farm implements, nets and gears • Undertake periodic pond maintenance activity • Assess marketable sixe of fish and select the desired fish for harvesting • Ensure proper harvesting with minimum handling • Undertake post-harvest care of the procedure	Laptop, white board, marker, projector

4	**Ensure safety, hygiene and sanitation practices in culture operations** **Theory Duration** (hh:mm) 07:00 **Practical Duration** (hh:mm) 14:00 **Corresponding NOS Code** AGR/N4918	• Ensure safety measures and upkeep of water bodies used in fish culture • Maintain personal hygiene & safety • Maintain health & hygiene of seed transportation and at various stages of growth and maturity	Laptop, white board, marker, projector, first aid
	Total Duration **Theory Duration** 25:00 **Practical Duration** 43:00	**Unique Equipment Required:** Laptop, white board, marker, projector, first aid kit	

Grand Total Course Duration: 12 (Orientation session) + 68 (Bridge Course) = 80 Hours, 0 Minutes