

Syllabus For Hatchery Manager(RPL)

Course Name	Hatchery Manager(RPL)
Sector	AGRICULTURE
Course Code	AGR/2021/HAMA/063
Level	4 (RPL)
Occupation	Hatchery Manager
Course Duration	Total Duration 60 Hrs (T-30 , P-30)
Trainees' Entry Qualification	Class VIII Pass with 5 years experience in the relevant field
Trainers Qualification	Bachelor degree in Fishery science/ Zoology/ Chemistry or equivalent from a recognized University/ Board/ Institute with minimum 2 Years' experience in Fisheries field.

Structure of Course:

Module No.	Module name	Theory (Hrs)	Practical (Hrs)	Total (Hrs)
1	Introduction	4	1	5
2	Ensure Production of Broodstock	5	5	10
3	Ensure preparation of hatchery for operations	10	15	25
4	Prepare reports and manage hatchery budgets	3	2	5
5	Ensure Personnel Management	3	2	5
6	Ensure safety, hygiene and sanitation Practices for Culture operation	5	5	10
	TOTAL	30	30	60

SYLLABUS:

Sl no	Revise Module (Proposed)	Key learning Outcomes	Equipment required
1	<p>Introduction</p> <p>Theory Duration: 4 hrs</p> <p>Practical Duration : 1 hrs</p>	<ul style="list-style-type: none"> • Study the scope and importance of hatchery and seed production in India • Understand the role of a Hatchery manager and the progression pathways • Identify the broodstock and manage the broodstock for breeding • Identify different types of cultured fishes of freshwater, brackishwater and marine water and their breeding protocols 	Laptop, white board, marker, projector
2	<p>Ensure Production of Broodstock</p> <p>Theory Duration: 5 hrs</p> <p>Practical Duration: 5 hrs</p>	<ul style="list-style-type: none"> • Identify brood stock depending on culture species (Freshwater, brackishwater or marine fish). • Perform pond preparation • Carry out proper liming, manuring and fertilization of pond. • Select quality broodstock and quarantine • Perform brood stock packaging and transportation • Understand brood stock nutritional requirements and feeding • Carry out soil, water and fish sampling • Perform water quality and health management 	Oxygen cylinder, Packaging material – Plastic bags, Anaesthesia, Bucket, torch etc
3	<p>Ensure preparation of hatchery for operations</p> <p>Theory Duration: 10 hrs.</p> <p>Practical Duration: 15 hrs.</p>	<ul style="list-style-type: none"> • Design, modify and construct hatcheries • Perform stocking and broodstock management • Select quality broodstock for breeding • Supervise breeding schedule • Carry out breeding • Produce quality seeds • Ensure stocking of healthy seed • Ensure timely circulation of water and proper aeration in the tanks • Carry out culture of live food organisms • Water quality management, • Use probiotics and medicines to control diseases and quarantine • Preparation of feed charts and feeding 	Breeding hapa, anaesthesia, water pump, injection, torch, bucket

Sl no	Revise Module (Proposed)	Key learning Outcomes	Equipment required
4	<p>Prepare reports and manage hatchery budgets</p> <p>Theory duration: 3 hrs</p> <p>Practical duration: 2 hrs</p>	<ul style="list-style-type: none"> • Carry out documentation • Keep records of hatchery operations • Prepare hatchery budget • Coordinate with colleagues. 	Laptop. Note book, Pen, Marker.
5	<p>Ensure Personnel Management</p> <p>Theory duration: 3 hrs</p> <p>Practical duration: 2 hrs</p>	<ul style="list-style-type: none"> • Determine manpower required for different hatchery operations • Set KRAs of all employees and also to ensure proper functioning of all colleagues • Undertake monitoring of the hatchery operations • Set up effective coordination between hatchery staff • Train the workers 	Laptop, white board, marker, projector, Audio-visual aids
5	<p>Ensure safety, hygiene and sanitation Practices for Culture operation</p> <p>Theory Duration 5 hrs</p> <p>Practical Duration 5 hrs</p>	<ul style="list-style-type: none"> • Ensure proper biosecurity measures are adopted at hatchery • Maintain hygiene and health of seeds at various stages of growth, • Identify common preys and predators, • Use of protective clothing and gear, • Carry out regular inspection of pathogenic infections, and disease outbreaks. 	Grinder, mixer, pelletizer, soil and water testing kit, pH meter, nets, aerator, Water Pump, hypochlorite solution, surgical knife, Gum boots, Breeding hapa, Syringe, gloves, Power backup
	<p>Total duration of course : 60 hrs</p> <p>Theory : 30 hrs, Practical : 30hrs.</p>		