

Syllabus For Duck farming practitioner (RPL)

Course Name	Duck farming practitioner (RPL)
Sector	AGRICULTURE
Course Code	AGR/2024/DUFP/295
Level	4 (RPL)
Occupation	Duck farming practitioner
Course Duration	Total Duration 35 Hrs (OJT)
Trainees' Entry Qualification	Class VIII Pass with 5 years experience in the relevant field
Trainers Qualification	Diploma in Veterinary Science/Veterinary Pharmacy/Animal Husbandry or relevant field (B.V.Sc. & A.H. Preferable) with 01 years of relevant work experience. OR B. Sc. Animal Science with 2 years of relevant work experience. OR Science Graduate with 5 yrs of relevant work experience

Structure of Course:

Module No.	Module name	Total (Hrs)
1	Primary Concept about Scientific Duck Farming	2
2	Scientific Duck farm Management Practices	4.5
3	Duck Nutrition & Feeding Management Practices	3.5
4	Breeding, Hatching and reproductive system in Duck	3.5
5	Scientific disease management, prevention & Vaccination Practices in Duck farming	3
6	Concept of cash flow, Project report/Proposal and different schemes to avail loan & their application procedure in Duck farming	3.5
7	Farm visit, Group work/case study in group for domestic Duck farming, Doubt clearing session with setting of goal in Duck farming	14
8	Concept of self-employment skilling under Utkarsha Bangla	1
	TOTAL	35

SYLLABUS:

S.N.	Topics	Total Duration(Hrs)
Primary Concept about Scientific Duck Farming:		
1	Brief history about Duck industry in India as well as in W.B. <ul style="list-style-type: none"> ☐ Different breeds of duck ☐ Different body parts of Duck (Pr) ☐ Maintenance of registers (Pr) ☐ Scientific housing, sanitation, ventilation etc. (Pr) ☐ Concept of broiler, layer, LIT and backyard Duck farming. 	2
Scientific Duck farm Management Practices		
2.	Comparison of commercial duckling and layer farming from self-employment point of view (Pr) <ul style="list-style-type: none"> ☐ Concept of organic Duck farming ☐ Concept of backyard or semi-intensive duck farming with LIT birds;with emphasis on their potential in providing self-employment (Pr) ☐ Duck housing with equipment (Pr.) ☐ Brooding and Rearing ☐ Vaccines, medicines, feed supplements for health management of Duck 	4.5
Duck Nutrition & Feeding Management Practices		
3	Concept of protein, fat, carbohydrate, mineral, vitamin and water <ul style="list-style-type: none"> ☐ Different type of duck feed and formulation ☐ Different ingredients of duck feed ☐ Computation of ideal duck ration (Pr) ☐ Azolla production (Pr) ☐ Concept of feed conversion ratio ☐ Vaccines, medicines, feed supplements for health management of duck 	3.5
Breeding, Hatching and reproductive system in Duck		
4	Duck breeding& hatching of eggs and concept of parent stock <ul style="list-style-type: none"> ☐ Sharing of experiences in hatchery (Pr) ☐ Duck breeding& hatching of eggs (Pr) ☐ Maintenance of Hatchery register (Pr) Concept about male & female reproductive System of duck <ul style="list-style-type: none"> ☐ Formation and structure of eggs (Pr) ☐ Factors affecting egg size ☐ Abnormal eggs (Pr) ☐ Grading of eggs (Pr) 	3.5
Scientific disease management, prevention & Vaccination Practices in Duck farming		
5	Bacterial diseases <ul style="list-style-type: none"> ☐ Viral diseases, ☐ Fungal diseases ☐ Worm infestation & other diseases of duck ☐ Post mortem examination of duck (Pr) 	3.5

S.N.	Topics	Total Duration(Hrs)
	☑ Concept of bio-security and its procedure	
Concept of cash flow, Project report/Proposal and different schemes to avail loan & their application procedure in Duck farming		
6	Investment (capital and working capital) ☑ Income ☑ Repayment of bank loan with interest ☑ Concept of gross profit and net-profit, ☑ Concept of depreciation ☑ Maintenance of stock register ☑ Maintenance of cash-book Concept of term loan and cash credit loan ☑ KCC-AH ☑ SHG / FPO bank linkage ☑ Mudra-Yojna and similar schemes of the Govt. ☑ General procedure to avail term loans ☑ West Bengal Incentive Scheme 2017	3.5
Farm visit, Group work/case study in group for domestic Duck farming, Doubt clearing session with setting of goal in Duck farming		
7.	Breed of Ducks ☑ Handling of ducks ☑ Structure of duck shed ☑ Application of medicine (different routes) ☑ Application of vaccine ☑ Turning of litter ☑ Procedure to maintain good quality litter ☑ Application of feed and water ☑ Cleaning of duck shed ☑ Bio-security measures ☑ Demonstration of azolla pit. The trainees may be divided into 6 groups and each group to be provided one broad topic covered so far in different sessions. ☑ Trainees are required to brain-storm on the topic for 1 hour, and then make presentation ☑ Based on their presentations, their learning gaps may be identified and addressed accordingly. ☑ Each of the trainees is required to come up with their activity timeline as far their farming is concerned. All trainees would be encouraged to come up with their doubts whatsoever. All doubts are required to be cleared in this session. ☑ Based on their activity timeline, long term follow up plan of the ARD Dept. will be shared with the trainees.	14
8.	Concept of self-Employment skilling under Utkarsha Bangla	1
	Total:	35

COURSE OUTCOME:

1. Explain Scientific Duck Farming
2. Maintain Duck housing with equipment
3. Support health management of duck with proper duck feed and supplements.
4. Manage breeding, hatching and related activities in a shed.
5. Manage diseases and vaccination.
6. Perform overall financial management of duck farming.
7. Prepare report related to setting up a domestic Duck Farming.

LIST OF TOOLS & EQUIPMENTS: MODEL COURSE ON DUCK FARMING

LIST OF GENERAL TOOLS & EQUIPMENTS: (For Batch of 25 Candidates)			
S No.	Name of the Tool & Equipment	Specification	Quantity
1.	Laptop & LCD Projector,	Standard & available size	01 each
2.	White board, Marker,	5'X4'	01-02 each
3.	Record book, Balanced Feed Chart,	Standard & available size	02-03 each
4.	Public address system	-Do-	01 No

S No.	Name of the Farm Equipment's	Specification	Quantity
1.	Duck shed@ 1.5 Sqft / ducks	Space:1.5X 250Nos.	375-400 Sqft.
2.	Duck feeder, Drinker, water Heater	Standard & available size	01No /10-15 Ducks
3.	Brooder, Brooder Guard & Hover	-Do-	01-02 Nos.
4.	Setter, Hatcher & Sprayer etc.	-Do-	01-02 Nos.
5.	Chemicals, disinfectants, Sprinkler etc.	-Do-	02-03 each
6.	Vaccinator, Vaccines & First aid kit.	-Do-	02-03 each
	Rake, Wt. Balance, Fan, Litter etc.	-Do-	01-02 each