

DAIRY FARMING (DAFG)

General information :

1. Name of Trade : - Dairy Farming.
2. Entry Qualification : - Passed Class VIII.
3. Duration of Training : - 06 Months (under Vocational Short Term Course)

Rational : The course of Dairy Farming is essential for students of rural community as most of the villagers are having milking animals. Only the scientific rearing is to be disseminated among the dairy farmers for more profit.

Objective : The objective of the course is to develop knowledge of scientific rearing of Dairy animals including feeding, breeding, management, disease control, and insurance of Dairy animals.

At the end of training, the trainees will be able to :-

- a) Understand scientific ways of feeding, breeding, and management of milking animals.
- b) Take appropriate precautionary measures to check disease of milking animals and also can take the benefit of insurance of Dairy animals.
- c) Involve themselves with big Dairy Farms or to take Dairy farming as a means of self employment.

The course content to be covered in less than 26 weeks since some weeks will be used for enrolment procedure, leave of instructors, holidays, examination and tests and industrial visits etc.

Course Break up :-

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| A. Practical Instruction | : - 288 hrs. |
| B. Theoretical Instruction | : - 067 hrs. |
| C. Entrepreneurial Instruction | : - 05 hrs. |

Marks allotted :-

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| 1. Practical | : - 400 |
| 2. Theory | : - 100 |

Industrial Visit:- Industrial visit cum study tour to at least one Dairy Farm with modern equipment.

Theory (67 hrs)

1. Introduction : Importance of animal husbandry with special reference to dairy farming. Common dairy animals in West Bengal. (4 hrs)
2. General Idea about breeds of dairy animals. Suitable breeds of cattle in West Bengal. (4hrs)
3. Principal points for selection of cattle improvement at local cattle. (7 hrs)
4. Reproduction of bovines - age of 1st mating, estrous cycle and right time of mating, pregnancy diagnosis, parturition. (8 hrs)
5. A. I- definition, technique and procedure, equipments needed precautions. (5 hrs)
6. Feeds and practical feeding of bovines - types of feeds, preparation of concentrate mixture, green fodder- its cultivation and preservation as hay and silage, Thumb rule of feeding of dairy bovines. (10 hrs)
7. Housing of dairy bovines-construction of ideal cowshed for small dairy units, cleaning and sanitation of dairy farm. (5 hrs)
8. Care of calf, heifer and locating and dry cows. (6 hrs)
9. Maintenance of health of dairy animals, signs of ill health, general idea about commonly occurring diseases like FMD, HS, BQ, Mastitis, Milk fever etc. (10 hrs)
Deworming, vaccination, prophylactic medications like use of vitamin and mineral supplements. First Aid of sprain, broken horn, wound, fever, diarrhoea, tympany, retention of placenta, repeat breeding etc.
10. Milk-idea about legal standards of liquid milk, factor affecting yield and quality of milk, clean milk production, milking technique, determination of quality, storage of milk, milk products, marketing of milk and milk products. (8 hrs)

Practical (288 hrs)

1. Approach to animal and study of external body parts. (10 hrs)
2. Determination of body weight of cattle by physical measurement. (10 hrs)
3. Estimation of age of cattle by dentition and horn ring methods. (10 hrs)
4. Control of dairy cattle - study of crate, lifting of fore, application of Milk man's rope, casting. (20 hrs)

5. Determination of rectal temperature and respiration rate of cattle. (20 hrs)
6. Identification of dairy cattle. (10 hrs)
7. Judging and selection of dairy animal (by score card method.) (10 hrs)
8. Common appliances used in dairy farm. (20 hrs)
9. Study of common feed ingredients and fodder. (20 hrs)
10. Preparation of concentrate mixture of dairy cattle. (10 hrs)
11. Feeding of dairy cows by thumb rule method. (10 hrs)
12. Study of A.I. Equipments. (15 hrs)
13. Study of different categories of liquid milk and milk products. (10 hrs)
14. Cleaning and disinfections of cowshed. (10 hrs)
15. Study of common signs of ill health of dairy cattle. (10 hrs)
16. Study of various routes of drug administration. (10 hrs)
17. Study of life history of cattle - calf, heifer, cow, bull, bullock (10 hrs)
18. Hand milking practice and care of fodder. (10 hrs)
19. Care of calf. (5 hrs)
20. Care of heifer. (5 hrs)
21. Care of cow. (8 hrs)
22. Visit of dairy farm, dairy plants. (20 hrs)
23. Attending animal health camps. (20 hrs)
24. Keeping records in a dairy farm. (5 hrs)
25. Practical Note Book.

ENTREPRENEURIAL INSTRUCTION

(5 hrs)

Sl. No.	Course Curriculum	Hours
1.	Brief idea about poultry farming	
2.	Preparation of various schemes as per need for vetting to Financial Institution/ Lead Bank for obtaining Loans.	
3.	Idea about General hygienic care around cowshed.	
4.	Maintenance of Accounts, labour capital etc.	
5.	Man Management, Communication, Motivation.	
6.	Visit of milk cooperative societies.	
7.	Visit of Feed Milling plants.	
8.	Visit to Govt. Fodder Farms/Silage pits etc.	
9.	Visit to large farms having facilities of machine milking.	
10.	Market Survey.	