

**POULTRY FARM MANAGER (POFM)**  
**Core Qualification File Syllabus**

**DETAIL COURSE CURRICULUM:**

Course No.	Course Title	Learning Hours
POFM 01	Introduction to Poultry Farming	05T+00P
POFM 02	Poultry Housing, Equipment, Hatching & Brooding Management	15T+20P
POFM 03	Poultry Feeding and Nutrition Management Practices	15T+20P
POFM 04	Poultry Healthcare, Treatment, prevention, and Bio-security Management	15T+20P
POFM 05	Poultry(Broiler & Layer) Chick and Farm Management + Hands-on Training in Poultry Farm Industry	12T+20+6P
POFM 06	Value Chain Management, Documentation & Record Keeping in Poultry farming.	10T+10P
<b>Total Credit Hours: 168 Hours</b>		<b>72T+96P</b>

**DETAIL COURSE-WISE THEORY & PRACTICAL SYLLABUS:**

Sl. No.	Course Title	Learn Hours
<b>POFM 01</b>	<b>Introduction to Poultry Farming</b> - Able to identify different poultry breeds, their body parts, explain production parameters, basic requirements to set-up a commercial poultry farm, along with Structure, prospects & constraints of poultry industry	<b>05T</b>
<b>Theory</b>	Introduction on Indian Poultry farming practices, Different Layer, Broiler and dual purpose Breeds of fowls and other Poultry, Layer breed such as-RIR, White leghorn, Black australorp, Karaknath, Vanraja, Gramyapriya etc., Broiler Breed-Vencob, Hubbard, Starbro etc. other Poultry species. Poultry population and other poultry related statistics of the states and country, Description of various external and internal body parts of Poultry, Brief description of anatomical and physiological parameters of poultry, Structure of poultry industry-Breeder farm, hatcheries, commercial farms, feed mills and processing industry, backyard to commercial poultry farming, future perspective & constraints of poultry industry in the state and Country.	<b>05T</b>
<b>POFM 02</b>	<b>Poultry Housing, Equipment, Hatching &amp; Brooding Management</b> - Competent to Explain scientific practices on different Poultry Housing system, feeding, drinking & other essential Equipment, accessories, artificial incubation, Hatching & advanced Brooding Management in profitable Poultry farming.	<b>15T+20P</b>

<b>Theory</b>	Different System of Poultry farming as-Free range, semi intensive, intensive system, advantages & disadvantages of various poultry farming practices, various System of Poultry rearing-Cage system, Deep litter, backyard and slat system, Selection of site and location of poultry farm, various types of Poultry houses and Ventilation system, Poultry farm equipment-Brooding, feeding & watering equipment's, vaccinators, dubbing, debeaking & other equipment, Principle of Poultry Breeding Practices, selection and examination of egg for breeding, Incubation Process-Natural and artificial incubation practices, Factors affecting incubation & Hatchery Management, Breeder Management Practices, Application of automation in commercial poultry farming. Use of Automatic feeders, drinkers & manure collection system.	15T
<b>Practical</b>	Identification and model demonstration of different system of rearing, housing and ventilation in poultry, Draw a schematic diagramme on site, location of poultry farm, Enlist various farm & other necessary equipment used in different system of Poultry farming, Elaborate Principle and factors of Poultry incubation, Hatchery and brooding Management Practices, Identification and examination process of eggs for hatching, Describe different types of feeders, drinkers, egg and manure collection system used in modern Poultry farming system.	20P
<b>POFM 03</b>	<b>Poultry Feeding and Nutrition Management Practices</b> - Skilled to illustrate scientific and balanced Poultry Feeding, feed ingredients, Nutrition requirement of different category and forms of Poultry feed, prepare low cost balanced feed for poultry, identify different anti-nutrients, and nonconventional feed components for better nutritive Poultry farming Practices	<b>15T+20P</b>
<b>Theory</b>	Scientific and balanced Nutrition and Metabolism process in different Poultry species, Major Feed Ingredients and its importance as- Carbohydrate, Protein, Fat, Vitamins, Minerals and water etc. in Poultry farming, Essential Macro and micro nutrients used in Poultry, nutrient requirements and feeding Practices for various species of poultry, nutritional and metabolic disorders in poultry, Formulation of Poultry Rations and Analysis of feedstuffs in Poultry, Low cost feed formulation for backyard poultry, Forms of poultry feed, commonly occurring anti nutrients and toxicants in poultry feed ingredients, Different systems of feeding, restricted & controlled use of additives & non-additives as-amino acid, anti-oxidants, enzymes, hormones, probiotics etc. Utilization of non-conventional feedstuff for Poultry farming.	15T
<b>Practical</b>	Identification of major feed ingredients of Poultry; Demonstration of feeding & water requirements in various species of poultry, Elaborate different forms of poultry feed, such as-Chick Starter & Grower, Broiler Starter, Grower & Finisher, Layer Finisher ration etc. for Poultry, Preparation of low cost balanced ration for	20P

	backyard Poultry & other feed formulation of Poultry, Enlistment of commonly occurring anti nutrients & toxicants in poultry feed, Explain various systems of Poultry feeding, Prepare a list of non-conventional feed stuff commonly used for poultry farming.	
<b>POFM 04</b>	<b>Poultry Healthcare, Treatment, Prevention and Bio-security Management</b> - <i>Capable to recognize various infectious and non-infectious Poultry diseases, able to diagnose various symptoms of Poultry disease and its prevention strategies, performing vaccination processes and various sanitation measures and Bio-security protocol for safe and secure commercial Poultry farming Practices.</i>	<b>15T+20P</b>
<b>Theory</b>	Different infectious and non-infectious diseases in Poultry farming, Classification of Poultry diseases–Viral, Bacterial, Fungal, protozoa and Parasitic diseases. Nutritional such as- Vitamin, minerals & others deficiency and metabolic diseases of poultry, Scientific medication and Vaccination Schedule of Poultry, Pre and post vaccination care of chick, and Layer Poultry, Preventive Measures for outbreak of infectious diseases, General farm hygiene and safety, Sanitation procedures, quarantine measures, isolation, Poultry farm shed cleaning and disinfection procedures, Water sanitation, Disinfection of inside and premises of poultry farm, precaution and handling of chicks and other Poultry birds, Post mortem procedure of dead birds, Principles of Bio-safety and bio-security measures in Poultry farm, Proactive measures to minimize entry of infectious agents in farm premises, Structural and Operational Sanitation measures in Poultry farms.	15T
<b>Practical</b>	Identification of different poultry disease causing organisms i.e. Virus, Bacteria, Fungi, Protozoa and Parasites. Explain common nutrition such as- Vitamin, minerals deficiency diseases of poultry, Demonstrate standard medication and Vaccination process of chick, Broiler and Layer Poultry, Elaborate pre & post vaccination care of chick and Layer Poultry, Enlist various diagnostic symptom of vital infectious and non-infectious Poultry diseases, Elaborate the procedure of scientific farm hygiene, Sanitation, cleaning and disinfection procedures, Depict several precautionary measures in Poultry farm, Explain important principles of Bio-safety and bio-security measures in Poultry, Perform scientific Post mortem procedure of dead poultry birds, Enlist various proactive measures to minimize entry of infectious and different preventive measures for outbreak of disease in Poultry farm.	20P
<b>POFM 05</b>	<b>Poultry(Broiler &amp; Layer) Chick and Farm Management</b> - <i>Effectively illustrate principles of chick management practices, incubation, hatching and brooding management of Broiler and Layer Poultry Chick along with various aspects of scientific Farm Management Practices.</i>	<b>12T+20P+06P</b>
<b>Theory</b>	Different Systems of Broiler & Layer Poultry chick rearing, Preparation of house for brooding of day old Broiler and layer chicks, Selection of Poultry chicks, Candling process, lighting	12T

	schedule, and other brooding management practices in Poultry, Scientific Feeding and Water management in Broiler and Layer chick, grower and finisher production, preparation of Broiler and Layer farm routine or schedule, Adoption of standard medication and vaccination schedule, System of Integration in Broiler & layer Poultry.	
<b>Practical</b>	Demonstration of various Broiler & Layer chicks rearing system of Poultry, enlistment of various materials necessary for preparation of house for brooding of day old chicks, Elaborate feed and Water requirement in Broiler & Layer chicks of Poultry, Identification of genetically superior Poultry chicks, Elaborate Candling process and lighting schedule in brooding management in Poultry, Perform routine medication & vaccination process in Broiler and Layer chicks Poultry farm.	20P
<b>Project</b>	<b>Hands-on Training in Poultry Farm Industry</b>	06P
	Hands-on Training: Hands-on Training in advanced procedures and techniques pertaining to Poultry production and management in commercially managed poultry farm, Exposure visits to commercial Layer & Broiler poultry farms, hatcheries, feed mills, processing units for better hands on skill experience etc.	
<b>POFM 06</b>	<b>Value Chain Management, Documentation &amp; Record Keeping in Poultry farming.</b> - Explain skillfully several Value and supply Chain Management system in commercial Poultry farm Practices, Poultry insurance for mitigation of physical & market risk factor, Documentation & Record Keeping in Poultry farming.	10T+10P
<b>Theory</b>	Dynamics of Poultry Business-Nature, scope and prospect, Changing dimensions of Poultry business in India, Poultry Value Chain, interventions, challenges in Indian Poultry industry, Supply Chain Management, Poultry Processing, , storage, preservation, value addition and Products Technology, Promoting entrepreneurship in Poultry, Financial Management of successful poultry enterprise, concept and process of Poultry insurance, preparation of Broiler and layer project/schemes in Poultry, Marketing and legal aspects of poultry business, role of Government, Non-Govt. and various private organization in promoting entrepreneurship in India	10T
<b>Practical</b>	Documentation and record keeping process in Poultry farm management, Elaborate Value Chain Management, storage and preservation and processing techniques in commercial Poultry farming, Explain various interventions and Supply Chain Management procedure in Poultry farming, Preparation of technically viable and economically feasible Broiler and layer farming project with repayment schedule, Depict various Financial Management system of successful Poultry enterprise.	10P
<b>Total Credit Hours: 168 Hours</b>		<b>72T+96P</b>

## OUTCOMES

OUTCOMES TO BE ASSESSED	ASSESSMENT CRITERIA FOR THE OUTCOME
<p><b>1. Able to identify different poultry breeds, their body parts, explain production parameters, basic requirements to set-up a commercial poultry farm, along with Structure, prospects &amp; constraints of poultry industry</b></p>	<p>(1.1) Assessor will judge the trainee on his ability to identify different Layer poultry breed such as-RIR, White leghorn, Black Minorca, Karaknath, Vanraja, Gramyapriya etc., Broiler Breeds-Vencob, Hubbard, Strabo etc. along with other poultry breed for selection of location specific poultry farming system.</p> <p>(1.2) Assessor will ask the trainee to illustrate different commonly used poultry breeds as- RIR, WLH, Vanraja, Gramyapriya, Kadaknath, Vencob, Hubard etc. along with their production parameter weight gain, Egg production, FCR and others in field.</p> <p>(1.3) Trainee will be asked to explain basic requirements like- space, feed intake and availability, transport, market demand etc. to set up a commercial poultry farm along with its pre-requisite of profitable poultry farming.</p> <p>(1.4) Assessor will ask the trainee to elaborate different system of scientific and commercial Poultry rearing practices such as- Backyard, Intensive and semi-intensive farming etc. along with merit &amp; demerits in field.</p> <p>(1.5) Assessor will assess the assignment or report submitted by trainee to supervisor or competent of authority regarding various structure of Poultry hatcheries and commercial farms in the state along with their future perspectives and constraints of poultry industry.</p> <p>(1.6) Trainee will be asked to identify different external and internal body parts of Poultry for better systematic knowledge in Poultry farming through pictures or model.</p> <p>(1.7) Trainee will be asked to narrate different poultry population status along with availability of egg &amp; meat in the state &amp; Country.</p>
<p><b>2. Competent to Explain scientific practices on different Poultry Housing system, feeding,</b></p>	<p>(2.1) Trainee will be asked to explain different system of Poultry rearing as- Backyard, intensive and semi-intensive farming practices.</p> <p>(2.2.) Trainee will be asked to elaborate different types of Poultry house</p>

<p>drinking &amp; other essential Equipment, accessories, artificial incubation, Hatching &amp; advanced Brooding Management in profitable Poultry farming.</p>	<p>system (like-Cage, deep litter and slat system) along with preparation of deep litter bed for layer &amp; Broiler poultry.</p> <p>(2.3) Assessor will ask the trainee to illustrate and identify various ventilation system along with utility for profitable poultry farming system</p> <p>(2.4) Assessor will ask the trainee to enlist different parameters of site selection process and principles of poultry housing practices.</p> <p>(2.5) Trainee will be asked to provide pictorial demonstration on different automation &amp; climate control system in Poultry farming industry.</p> <p>(2.6) Trainee will be assessed to identify/enlist the equipment required for poultry hatching &amp; brooding management and demonstrate their use.</p> <p>(2.7) Assessors will ask to illustrate various Poultry incubation &amp; Hatchery Management Practices and narrate about scientific feeder, drinker, Egg and manure collection system in Poultry.</p>
<p><b>3. Skilled to illustrate scientific and balanced Poultry Feeding, feed ingredients, Nutrition requirement of different category and forms of Poultry feed, prepare low cost balanced feed for poultry, identify different anti-nutrients, and nonconventional feed components for better nutritive Poultry farming Practices</b></p>	<p>(3.1) Trainee will be asked to identify different body parts of digestive system of Poultry through pictorial or model demonstration.</p> <p>(3.2) Assessor will ask the trainee to identify various micro and macro nutrients as essential Vitamins &amp; minerals in poultry feeding.</p> <p>(3.3) Assessor will ask the trainee to illustrate various feeding requirements in different species of poultry along with preparing low cost balanced Ration &amp; feed formulation of Poultry.</p> <p>(3.4) Trainee will be asked to explain the nutrient requirements feeding requirements like-Chick feed, starter, Grower &amp; finisher feed, for various species of Poultry.</p> <p>(3.5) Assessor will ask the trainee to elaborate different nutritional &amp; metabolic disorders through vitamin &amp; mineral deficiency and various factors influencing feed consumption in Poultry birds.</p> <p>(3.6) Assessor will ask the trainee to identify and enlist various conventional feed as-Rice Bran, Husk, Rice grit, Gram Husk, oil cake etc. &amp; non-conventional as-Karanja Cake, Neem Cake, Azolla etc. feed ingredients of Poultry.</p>

	<p>(3.7) Assessor will ask the trainee to explain various forms of poultry feed as-Mash, Pallet, crumble feed etc. feeding rate and methods of chick feeding &amp; other category of poultry birds.</p> <p>(3.8) Trainee will be asked to enlist and depict commonly occurring anti-nutrients as- excessive moisture, heat, immune depressant etc. and toxicants as- mycotoxin, aflatoxin etc. in poultry feed ingredients.</p> <p>(3.9) Trainee will be asked to elaborate various systems of feeding as- cage feeding, deep litter or semi-intensive, feed additives, amino acid as- lysine, methionine , antioxidants, enzymes and probiotics etc. used in Poultry feeding.</p>
<p>4. Capable to recognize various infectious and non-infectious Poultry diseases, able to diagnose various symptoms of Poultry disease and its prevention strategies, performing vaccination processes and various sanitation measures and Bio-security protocol for safe and secure commercial Poultry farming Practices.</p>	<p>(4.1) Assessor will ask the trainee to explain various category of infectious diseases such as-Viral, Bacterial, Fungal, protozoa and Parasitic etc. occurred in Poultry farming.</p> <p>(4.2) Trainee will be asked to elaborate various diagnostic symptoms of infectious Poultry diseases and demonstrate various types of medication as- drenching or Injection etc. vaccine administration system as- intramuscular, Intravenous or Subcutaneous methods in Poultry</p> <p>(4.3) Assessor will ask the trainee to enlist general precautions for preventing outbreak of emerging infectious diseases in Poultry.</p> <p>(4.4) Assessor will ask the trainee to delineate specific vaccination schedule with dose for commercial layer and Broiler Poultry farming.</p> <p>(4.5) Assessor will examine whether the trainee can able to perform the vaccination process, pursue pre and post vaccination care to poultry bird in the farm.</p> <p>(4.6) Trainee will be asked to explain various safety and security protocols to prevent infectious disease outbreak in Poultry farm.</p> <p>(4.7) Trainee will be asked to elaborate various sanitization and disinfection procedures along with proper disposal process in Poultry.</p> <p>(4.8) Assessor will examine whether the trainee can able to perform the post mortem procedure with precaution in Poultry.</p>



	<p>(4.9) Trainee will be asked to explain standard bio-safety and bio-security proactive measures like- fumigation, spray of disinfectant etc. in Poultry farming, to minimize entry of infection agents in farm premises.</p> <p>(4.10) Trainee will be asked to delineate various Structural and Operational Sanitation measures in for effective bio-security measures in Poultry farms.</p>
<p><b>5. Effectively illustrate principles of chick management practices, incubation, hatching and brooding management of Broiler and Layer Poultry Chick along with various aspects of scientific Farm Management Practices.</b></p>	<p>(5.1) Assessor will ask the trainee to explain the Principles of Poultry breeding, incubation along with hatchability of Broiler &amp; layer Poultry.</p> <p>(5.2) Trainee will be asked to elaborate various types of hatching and incubation system in Broiler &amp; layer Poultry farm.</p> <p>(5.3) Assessor will ask the trainee to describe breeder management and hatchability factors in broiler &amp; layer in Poultry Farming.</p> <p>(5.4) Assessor will ask the trainee to Identify various materials necessary for preparation of house of day old chicks in Poultry.</p> <p>(5.5) Assessor will examine whether the trainee can able to perform different system of chicks &amp; broiler rearing in commercial farm.</p> <p>(5.6) Trainee will be asked to explain scientific feeding, watering, management, medication and vaccination schedule in chicks of Broiler Poultry.</p> <p>(5.7) Trainee will be asked to elaborate various systems of integration performance indices as- Cost, Profitability, safety etc. in Broiler &amp; layer Poultry farming.</p> <p>(5.8) Trainee will be enquired about different farm waste disposal and management procedure of Poultry farming in scientific way.</p>
<p><b>6. Explain skillfully several Value and supply Chain Management system in commercial Poultry farm Practices, Poultry insurance for mitigation of physical &amp; market</b></p>	<p>(6.1) Assessor will ask the trainee to explain the dynamics &amp; dimension of livestock business, its scope &amp; prospect in Poultry farming</p> <p>(6.2) Trainee will be asked to elaborate different value chain system, marketable surplus in commercial poultry farming system.</p> <p>(6.3) Assessor will ask the trainee to explain different factors &amp; impact of climate change in Poultry Farming.</p> <p>(6.4) Trainee will be asked to delineate various supply chain</p>



<i>risk factor,</i> <i>Documentation &amp;</i> <i>Record Keeping in</i> <i>Poultry farming.</i>	<p>Management, processing and product technology in Poultry farming.</p> <p>(6.5) Assessor will examine whether the trainee can able to perform efficient entrepreneurship role &amp; aware about trade policy on Poultry.</p> <p>(6.6) Trainee will be asked to elaborate, how to maintain documents &amp; Keep record in effective and efficient Poultry farm management,</p> <p>(6.7) Trainee will be asked to enlist different Poultry Processing, preservation, value addition and Products preparation technology in commercial Poultry farming.</p> <p>(6.8) Trainee will be asked to prepare a bankable scheme or project on commercial Broiler and layer farming along with financial Management of successful Poultry enterprise.</p> <p>(6.9) Trainee will be asked to explain the mitigation strategy of physical and market risk factor in commercial poultry farming through insurance and availing other benefits of Govt. in profitable poultry farming.</p>
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