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Facilitator Guide



Sector
Agriculture

Sub-Sector
Poultry

Occupation
Poultry Farming

Reference ID: **AGR/Q4306**, Version **3.0**
NSQF Level: **4**

Small Poultry Farmer



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Shri Narendra Modi
Prime Minister of India

“ Skilling is building a better India.
If we have to move India towards
development then Skill Development
should be our mission. ”



Acknowledgements

We are thankful to all organizations and individuals who have helped us in preparation of this Facilitator Guide. We also wish to extend our gratitude to all those who reviewed the content and provided valuable inputs for improving quality, coherence and content presentation of chapters. This Facilitator Guide will lead to successful roll out the skill development initiatives, helping greatly our stakeholders particularly trainees, trainers and assessors etc. We are thankful to our Subject Matter Expert for the content and helping us in preparation of this Facilitator Guide.

It is expected that this publication would meet the complete requirements of QP/NOS based training delivery. We welcome the suggestions from users, industry experts and other stakeholders for any improvement in future.

About this Guide

This Trainer guide is intended to empower the trainer/facilitator to prepare the participant to become 'Small Poultry Farmer' as per the Qualification Pack (QP).

The objective of the guide is to provide an approach map for interacting with the trainees undergoing training on the job role. The aim of the course is to provide both theoretical and practical knowledge to the trainees, and also to guide them.

The guide is neither a substitute nor complete road map, but an aid to help you to pass on the knowledge on all the aspects to the trainees in a systematic manner. It is expected that the trainer is fully conversant with all the contents of the handbook. The guide is just to indicate that how to proceed for covering a topic and includes some additional information that may be necessary for the trainer to develop better comprehension.

Facilitator with the help of this guide will be able to build among participants:

- **Knowledge and Understanding:** Satisfactory operational learning and comprehension to play out the required chore
- **Performance Criteria:** Pick up the required aptitudes through hands on preparing and play out the required operations inside the predetermined measures
- **Professional Skills:** Capacity to settle on operational choices relating to the zone of work

The guide will also help them learn more by field visits and providing hands on training. It is expected that irrespective of the region, knowledge on all aspects of poultry farming will be imparted to trainees.

Symbols Used



Ask



Activity



Do



Demonstrate



Explain



Elaborate



Example



Exercise



Facilitation Notes



Field Visit



Learning Outcomes



Notes



Objectives



Practical



Resources



Role Play



Summarize



Say



Team Activity

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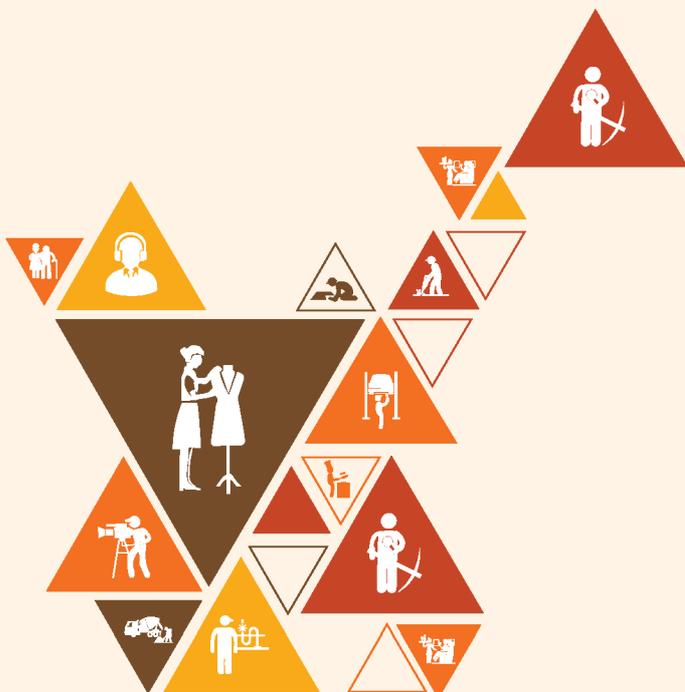
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1. Introduction to the Role of a Backyard/ Small Poultry

Unit 1.1 - Introduction

Unit 1.2 - Origin, Domestication and History of Poultry



Bridge Module

Key Learning Outcomes



After the completion of this module, the participant will be able to:

1. Explain general discipline in the classroom (Do's & Don'ts)
2. Discuss the role of a Small Poultry Farmer and the progression pathways
3. Describe the status, scope and opportunities in the Poultry Industry
4. Discuss Origin, domestication, and history of poultry
5. List different Poultry Breeds – Broiler and Layer farming
6. Explain the Purpose of raising different types of domestic birds for egg or meat production.
7. Explain the current demand for poultry industry

UNIT 1.1: Introduction

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain general discipline in the class room (Do's & Don'ts).
2. Discuss the role of a Small Poultry Farmer and the progression pathways.
3. Describe the status, scope and opportunities in the Poultry Industry.
4. Explain the current demand for poultry industry.

Resources to be Used

- Available objects such as participant handbook, white board, duster, marker, Power point slides, etc

Say

- Welcome the participants and thanks everyone for their participation in this training program.

Ask

- Ask the participants whether they have heard about Food Corporation of India (FCI) or any other such similar organization.

Elaborate

- Progression pathways of a small poultry farmer
- Status, Scope and Opportunities in the Poultry Industry

Say

- Discuss with the participants to share their feelings about this exercise and what new things they have learned in this exercise.

Field Visit



Purpose: To enhance the knowledge about small poultry farmer.

Methodology: Field visit and the time varies according to the location, it may be 1-2 hours.

Expected outcome:

- Confidence building
 - Knowledge enhancement
- Organize a visit and ask the participants to see the few small-scale poultry houses at field level.

Notes for Facilitation



- Discuss farm capacity in small poultry farmer system
- Explain the importance of birds selection for small-scale level
- Field demonstration is necessary
- Provide in house explanation on various breeds suitable for small -scale

Exercise



Key Solutions to PHB Exercises

1. Chickens, turkeys, geese and ducks.
2. The general class etiquettes that are to be followed in a class room are
 - Everyone should keep their mobiles on silent mode and should take only very urgent calls.
 - All participants should regularly attend the classes and inform the facilitator in case of any emergency in case you are not able to attend the session.
 - All equipment used during training sessions should be handled with utmost care.
 - Always follow the safety instructions given by the facilitator or your guide.
 - Proper conduct during field visits is expected as you will be handling materials which can cause severe consequences.
 - Only one person should talk at a time and raise hands before speaking.
3. The poultry industry in India has been seeing an Annual rate of 15% for broilers and 10% for layers due to change in food habits of young people and general growth in disposable income of families.

UNIT 1.2: Origin, Domestication and History of poultry

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Discuss Origin, domestication and history of poultry.
2. List different Poultry Breeds – Broiler and Layer farming.
3. Explain the Purpose of raising different types of domestic birds for egg or meat production

Resources to be Used

- Available objects such as participant handbook, white board, duster, marker, Power point slides, etc

Say

- Good day and welcome all the participants to the training session. Recall the key points of previous session discussion.

Explain

- History of Poultry
- Origin and Domestication

Team Activity

Purpose: Knowledge enhancement, effective communication.

Methodology: Group discussion and stage presentation for about 20- 30 minutes.

Expected outcome:

- Confidence building
- Group involvement
- Knowledge enhancement

Divide the participants into groups and ask them to discuss among themselves on the topic that has been taught in the class. Now call one volunteer from each group and ask him to summarize the topic and appreciate everyone.

Say



- Thank everyone for their participation.
- Describe the objective of above activity.
- Review the presentation of each group and enrich the same with your comments/valuable information/corrections etc.

Notes for Facilitation



- Indicate potential source of information to each of the group.
- Assist all groups to systematically arrange collected information and analyze them- when required.
- Constantly motivate each student to participate. Arrange for award for group presentation, based on criteria such as quality, and relevancy of the content, group involvement, presentation skills, use of tools etc.
- Where possible, display specific work of groups within the classroom.

Exercise



Key Solutions to PHB Exercises

1. Chickens, turkeys, geese and ducks etc.
2. The classification of Rural Poultry are Laying, meat- producing and dual –purpose breeds.
3. Cobb, Hubbard, Lohman, Anak 2000, Avian-34

Notes



A large rectangular area containing 30 horizontal lines for taking notes, enclosed by an orange border.



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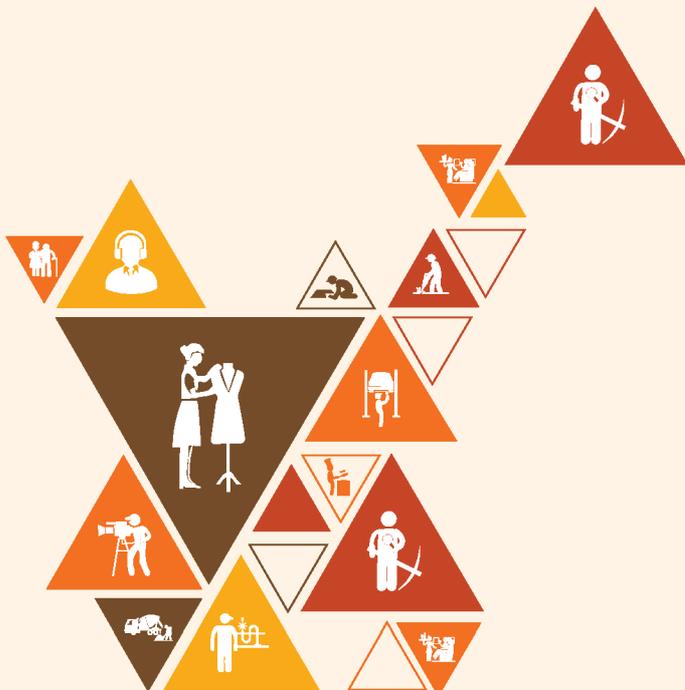
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2. Preparation of Poultry House

Unit 2.1 - Preparation of Poultry House

Unit 2.2 - Standards Related to Poultry Farming



AGR/N4327

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. Discuss need for poultry house as per industry standard
2. Discuss various factors that must be considered while identifying a suitable location with optimum size and space for the construction of poultry house
3. Explain basic principles to be observed for layout of the poultry farm as per farm size
4. Discuss different types of poultry houses
5. Describe Optimal environmental conditions required for rearing poultry birds
6. Explain classification Poultry Housing system and also their advantages and disadvantages
7. List the various inputs required for the establishment of the poultry farm
8. Explain the proper way to identify and establish the poultry farm with different types of poultry housing.
9. Discuss the standards of the poultry farm, adhere to industry standard.
10. Explain relevant legislation, standards, policies and procedures for preparation and management of poultry shed.
11. Discuss rules and regulations pertaining to poultry welfare and farming

UNIT 2.1: Preparation of Poultry House

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Discuss need for poultry house as per industry standard
2. Discuss various factors that must be considered while identifying a suitable location with optimum size and space for the construction of poultry house.
3. Explain basic principles to be observed for layout of the poultry farm as per farm size.
4. Discuss different types of poultry houses.
5. Describe Optimal environmental conditions required for rearing poultry birds

Resources to be Used

- Available objects such as a participant handbook, white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images showing various poultry house.

Say

- This unit says land requirements, infra structural facilities, environmental factors and Managemental issues regarding site selection for poultry house construction.

Ask

- Ask the participants if they have ever seen a Poultry house before, if yes, where ?

Elaborate

- Elaborate the topics with the help of power point presentation :
 - ✓ Need of Poultry house
 - ✓ Selection of a location
 - ✓ Different types poultry house
 - ✓ Poultry housing

Activity

Purpose: To acquaint students about the basic knowledge of poultry housing.

- This activity may be planned for 20-30 minutes.

Resources: Pen and notepad

Expected outcome: Enhancement in knowledge

- Ask the participants to make a list of different types of Poultry housing and then call one participant from them and ask the advantages and disadvantages of any one type.

Do

- At the end activity, ask the participants to share their first learning experiences of poultry house.
- Ask the participants to have Q&A session related to the topic.

Say

- Sum up key learnings of the above discussion.

Notes for Facilitation

- Ensure that all the participants have through understanding about Poultry housing.
- Ask the participants if they require any kind of help.
- Organize visit to near by poultry farms for better understanding of the concept.
- Arrange relevant pictures and posters showing different types of poultry house.

Exercise

Key Solutions to PHB Exercises

1. Different Types of Poultry Houses:

- Brooder / chick - From 0 to 8 weeks old, egg-type chicks are raised in a home.
- Grower house - It is used to grow egg-type birds from 9 to 18 weeks of age.
- Brooders cum grower - The birds are raised here from birth to 18 weeks of age (entire brooding and growing period of egg-type chicken).
- Layer house - Where birds are raised after they reach the age of 18, typically for up to 72 weeks.
- Broiler house - Where broilers are raised until they are 6 weeks old.
- Breeder house - Where the optimum sex ratio is maintained for both male and female breeders.
- Environmentally controlled (EC) house - In which the entire environment is modified in a way that is best for the growth of the birds.

2. Basic principle for the layout of the poultry farm:

- The layout need to prevent having people or outside vehicles close to the birds.
- The placement of the sheds should be such that the brooder shed is the first to receive fresh air, then the grower shed and the layer shed.
- This prevents the spread of infections from layer houses to brooder house.
- Chick and grower sheds should be separated by a minimum of 50–100 feet, and grower and layer sheds should be separated by a minimum of 100 meters.
- Only at the far end of the site should the disposal pit and sick room be built.
- The egg store room, office room and the feed store room should be located near entrance to minimize the movement of people around the poultry sheds.

3. Deep Litter System : In this system, the birds are kept in large pens upto 250 birds each on floor covered with litters such as straw, saw dust or leaves up to depth of 8 -12 inches. Deep litter resembles dry compost. In other words we can define deep litter with poultry manure until it reaches a depth of 8- 12 inches.**Benefits :**

- Birds and eggs are safe as deep litter intensive pens have storage wire netting or expanded metal.
- Litter as source of food supply. It may be surprising to know that built up deep litter also supplies some of the food requirements of the birds. They obtain “animal protein actor” from deep litter and some work indicates that it could mean that birds obtain sufficient of this to enable a suitable feed ration to be prepared only with a vegetable protein such as groundnut meal included in the feed.

UNIT 2.2: Standards Related to Poultry Farming

Unit Objectives

After the completion of this unit, the participant will be able to:

1. List the various inputs required for the establishment of the poultry farm.
2. Discuss the standards of the poultry farm, adhere to industry standard.
3. Explain relevant legislation, standards, policies and procedures for preparation and management of poultry shed.
4. Discuss rules and regulations pertaining to poultry welfare and farming.

Resources to be Used

- Available objects such as participant handbook, white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and appreciate participants for their participation. Recall the previous session outcomes and then proceed towards the session.

Field Visit

Visit a nearby poultry farm and identify the various inputs required for the establishment of the poultry farm. Plan the visit for 2-3 hrs or as per suitability of location distance.

Materials required: Pen/Pencil, Notebook, Checklist.

Procedure:

- Make groups with five students in each.
- Ask them to visit a Poultry farm.
- Ask them to meet the farmer and greet him.
- Tell him the purpose of the visit and take permission to visit the farm.
- Observe what type of inputs are used.
- Ask them to make a report on their observation.
- Submit the report to the subject teacher.

Do

- At the end activity, ask the participants to share their first learning experiences of visiting poultry farm among their peers.
- Ask the participants to have Q&A session related to the topic.

Elaborate

- Elaborate the following topics with the help of participant handbook, audio visual aids etc.
 - ✓ Establishment of poultry house
 - ✓ Industrial Standards for the Poultry Farm

Say

- Sum up key learnings of the above discussion.

Notes of Facilitation

- Keep printed copies of the activities/ scenarios ready for the session.
- Put down the de-brief questions on a flip chart so that it can be displayed in the class during the activity.
- Encourage participation and make the discussions interactive.
- Help the participants to complete all the exercises mentioned in the participant handbook.
- Encourage participants for group discussion to ask questions so that they can clear their doubts (if any) on future job role.

Exercise

Key Solutions to PHB Exercises

1. A small size poultry farm doesn't require any special layout as it involves construction of only one house. The medium and large size farms require special considerations for placement of building in the farm premises.
2. Site selection, feed arrangement, reliable procurement source, selection disease free birds, type of sheds, hygienic practices, etc.
3. Different types of poultry houses :
 - (a) Brooder/Chick house
 - (b) Grower house
 - (c) Brooders cum grower house
 - (d) Layer house
 - (e) Broiler house
 - (f) Breeder house
 - (g) Environmentally controlled (EC) house
4. Different systems of poultry housing
 - (a) Free range system
 - (b) Semi-intensive system
 - (c) Intensive system

Notes



A large rectangular area with a thin orange border containing 28 horizontal lines for taking notes.



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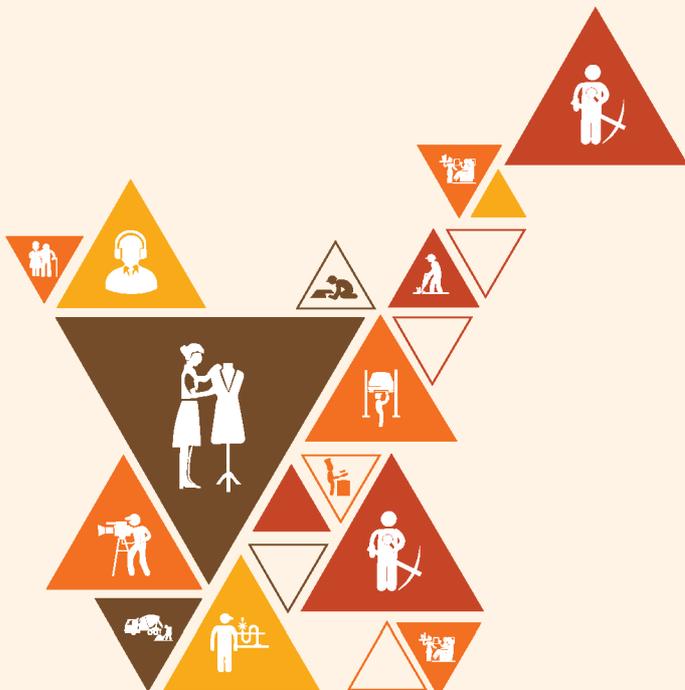
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3. Maintenance of Poultry House

Unit 3.1 - Equipment of Poultry Farm

Unit 3.2 - Handling of Poultry Birds



AGR/N4327

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. List the various equipment required to maintaining the poultry farm optimally
2. Discuss about importance of maintaining of farm equipment appropriately
3. Describe the optimal environmental conditions, clean water, feed, etc. that are required to be maintained to promote poultry bird health and safety as per SOP
4. Explain different factors which are considered while monitoring the poultry shed.
5. Discuss the techniques which promote health and safety of the birds as per SOP
6. Discuss quantity and quality of materials and equipment required in the poultry shed for maintaining health and hygiene of birds
7. Explain the maintenance and management of the inputs supply and equipment's in poultry farm.
8. Discuss the different seasonal management techniques to fight the climatic stress to the birds
9. Explain about bio-security measures to be adopted in inter-farm transfer of feed, equipment and movement of man & material.
10. Discuss the eco-friendly methods of waste disposal and their management as per industry standards
11. Explain the Importance of following the health, hygiene, safety and quality standards of birds, consumers and the business.

UNIT 3.1: Equipments for Poultry Farm

Unit Objectives

After the completion of this unit, the participant will be able to:

1. List the various equipment required to maintaining the poultry farm optimally.
2. Discuss about importance of maintaining of farm equipment appropriately.
3. Discuss quantity and quality of materials and equipment required in the poultry shed for maintaining health and hygiene of birds.
4. Explain the maintenance and management of the inputs supply and equipment's in poultry farm.
5. Discuss the techniques which promote health and safety of the birds as per SOP.

Resources to be Used

- Available objects such as a white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Explain

- Explain about the term “ Equipment”.

Elaborate

- Elaborate the following topics with the help of participant handbook, audio visual aids etc.
- ✓ Different types of Equipments
- ✓ Importance of maintaining farm equipments
- ✓ Management of the inputs supply and equipments
- ✓ Techniques which promote health and safety of the birds

Demonstrate

- **With help of visuals demonstrate the following equipments which are required in the poultry.**
 - ✓ Incubation equipments
 - ✓ Egg Candler
 - ✓ Brooder equipment
 - ✓ Feeding equipments
 - ✓ Water equipments
 - ✓ Vaccination equipments, etc.

Do

- Motivate the students to open up and ask questions.
- Clear the doubts of students related to equipments.

Summarize

- Close the discussion by summarizing the unit.
- Ask the participants what have they learnt from this exercise/ activity.
- Ask if they have any questions related to what they have talked about so far.

Notes for Facilitation

- Assist the students to identify the various equipment.
- Show photographs of different equipments.
- Give assignments to participants to draw diagram of equipments and label them.

Exercise**Key Solutions to PHB Exercises**

1. Functions of various equipments :
 - (a) Incubation equipments :
 - Compressed air system, Setter, Hatcher, Waste removal system
 - (b) Egg handling equipments:
 - Hatching egg trays, Hatching egg transfer machin, Egg Candler
 - (c) Brooder equipment:
 - Gas brooder, Charcoal stove, Electric brooder, Infra-red bulb
 - (d) Feeding equipments:
 - Automatic feeder, Linear feeder, Circular feeder
 - (e) Water equipments:
 - Water heater, Manual drinker, Nipple drinker
 - (f) Vaccination equipments
 - (g) Beak trimmer etc.
2. Poultry farms requires continuous input supply with efficient equipments to give its best output. So it is advised to the poultry farmers to keep a maintenance record to collect data regarding the quantity of agri inputs in the poultry farms. Also the equipments installed in the poultry farm should be checked after a particular time period so that the efficiency of the equipments can be analysed accordingly.
3. Some basic materials like bird feeds, water, medicines, cleaning equipments etc. are required in great quantity as they are required daily for maintaining the health and hygiene of poultry. Equipments like temperature controller, Infra-red bulb, beak trimmer etc. should be of good quality as they are expensive and they are required in less number to maintain healthy poultry birds.
4. Nutritious Food
 - Clean and hygienic environment
 - Scheduled health check-up
 - Safety from predators
 - Ventilated area

UNIT 3.2: Handling of Poultry Birds

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Describe the optimal environmental conditions, clean water, feed, etc. that are required to be maintained to promote poultry bird health and safety as per SOP.
2. Explain different factors which are considered while monitoring the poultry shed.
3. Discuss the different seasonal management techniques to fight the climatic stress to the birds.
4. Explain about bio-security measures to be adopted in inter-farm transfer of feed, equipment and movement of man & material.
5. Discuss the eco-friendly methods of waste disposal and their management as per industry standards.
6. Explain the Importance of following the health, hygiene, safety and quality standards of birds, consumers and the business.

Resources to be Used

- Available objects such as a white board, participant handbook, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Welcome everyone to this training session and review the key points of previous session discussion.

Elaborate

- Monitoring of Birds
- Stress in poultry birds
- Bio-security
- Waste management

Activity

Purpose : To enhance the knowledge about the poultry birds

Methodology: Visit a nearby poultry farm and monitor the birds.

Tentative time : 1-2 hrs. or it may be depends on the distance of location.

Material required: Checklist, notebook, pen/pencil

Procedure:

- Divide the participants into groups of 2 or 4 and ask them to visit the poultry farm with their respective groups.
- See all the parameters that we have learn and write them on your sheet.
- All the group participants will have their own observation and then everyone will discuss in their group.
- All the participants submit their sheet to the teacher.
- Ask any one of the participants to pin point the factors on white board.
- Then the teacher will discuss those points with the participants and clarify their doubts.

Say

- Wasn't the activity brainstorming? I hope you all like it.
- Thankyou everyone for their participation
- Discuss responses of the participants regarding the discussion.

Notes for Facilitation

- Assist all groups to understand the topic clearly through visualization.
- Ask any local poultry farmer to share how he manages his poultry farms.
- Encourage the participants to maintain their own record.
- Keep some exercises handy for the activity.
- Constantly motivate each student to participate.
- Address the queries of the participants and clear all the doubts participants.

Exercise**Key Solutions to PHB Exercise :**

1. Learning by doing and visit poultry unit and prepare a checklist.
2. Disposal techniques for waste management.
 - a) Burial method
 - b) Burning
 - c) Incineration
 - d) Composting
3. Make a visit to poultry unit and discuss with the poultry farmer to identify and resolve the issues (may prepare a checklist of the problem indicators such as light, vaccination, age group,etc.).
4. The house should be disinfected with any commercial disinfectant solution at the recommended concentration. For more details refers to PHB Unit 3.2.

Notes



Lined area for taking notes, consisting of multiple horizontal lines.





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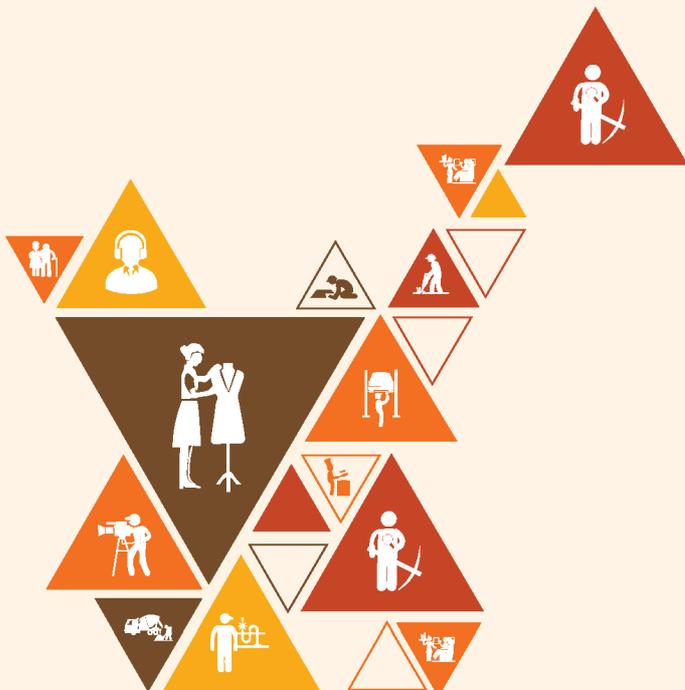
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4. Maintenance of Poultry Shed for Receive and Management of Chicks/Birds

Unit 4.1 - Maintenance of Poultry Shed

Unit 4.2 - Litter Management



AGR/N4328

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. Explain types of housing areas suitable for the chicks/birds
2. Discuss appropriate stocking density as per the age of birds
3. Explain quantity & quality of materials and equipment required in the poultry shed for maintaining health and hygiene of birds
4. Explain the signs of stress, normal/ abnormal behavior in birds and its alleviation methods
5. Explain management practices to be adopted for different climatic conditions to achieve the optimum production
6. Explain balanced feed and sanitized water to be provided to chicks/birds
7. Discuss the disinfection process for poultry shed, equipment and other tools
8. Explain waste disposal techniques for litter & discarded feed as per the industry guidelines and policies
9. Explain standard operating procedures while receiving and handling the chicks/birds
10. Explain the impact of not following the health, safety and quality standards.

UNIT 4.1: Maintenance of Poultry Shed

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain types of housing areas suitable for the chicks/birds.
2. Discuss appropriate stocking density as per the age of birds.
3. Explain quantity & quality of materials and equipment required in the poultry shed for maintaining health and hygiene of birds.
4. Explain the signs of stress, normal/ abnormal behaviour in birds and its alleviation methods.
5. Explain management practices to be adopted for different climatic condition to achieve the optimum production.
6. Explain balanced feed and sanitized water to be provided to chicks/birds.
7. Explain standard operating procedures while receiving and handling the chicks/birds.
8. Explain the impact of not following the health, safety and quality standard.

Resources to be Used

- Available objects such as a participant handbook, white board, duster, flip chart board/paper , Powerpoint presentation, etc.

Say

- Greet the participants and recall the previous session learning outcomes.

Ask

- How will you maintain the poultry shed?
- Why maintenance of poultry shed is required?

Elaborate

- Describe the following topics in detail with the help of audio-visual aids, PHB, etc.
 - ✓ Basic Maintenance
 - ✓ Receiving of chicks/birds
 - ✓ Climate management

Practical

- Conduct a practical session.
- Ask the participants to assemble in the poultry unit.
- Give some hands on practice exercises of Receiving of chicks/birds.

Do

- Group the participants for the activity depending on the batch size.
- Explain the purpose and duration of the activity.
- Ensure the participants complete the practical exercises assigned.

Summarize

- Ask the participants what they have learnt from this exercise/ activity.
- Ask if they have any questions related to what they have talked about so far.
- Close the discussion by summarizing all the points in Receiving of Chicks/Birds.

Notes of Facilitation

- Help the participants to complete all the tasks involved in the participant hand book.
- Motivate the participants by involving them in sense of participation and the realization of the importance of their work as a poultry farmer.

Exercise

Key Solutions to PHB Exercises:

1. Clean and sanitise the poultry house after removing the adult birds who have already been there.
2. Clean Several hours before to the arrival of the chicks, turn on the brooder heating source to maintain the necessary brooding temperature. Clean and sanitise the poultry house after removing the adult birds who have already been there.

UNIT 4.2: Litter Management

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain waste disposal techniques for litter & discarded feed as per the industry guidelines and policies.

Resources to be Used

- Available objects such as a participant handbook, white board, duster, flip chart, charts, paper, etc.

Say

- Greet the participants and appreciate participants for their participation. Recall the previous session outcomes and then proceed towards the session.

Ask

- Define "littering".
- Why is littering a bad thing ?

Elaborate

- Litter Management
- Litter properties
- Types of material used for litter.

Activity

Purpose: Learning by doing

Methodology : Hands on practice

Materials Required : Various materials have been used for litter

Tentative time : It may be 1-2 hours or may varies according to the distance of location

Procedure : Divide the participants into groups and then ask them to practice litter management on their own in the poultry unit. Then discuss with the trainer about all the practices they did and ask their doubts also.

Say



- Discuss the methods and encourage the participants .

Notes for Facilitation



- Make sure the participants are well acquainted with management of litter.
- Circulate between the groups to provide assistance, encouragement and advice, if needed.
- Involve the participants through group activities, discussions and learning by doing.
- Organise a field visit to poultry farm to have practical demonstration of discussed topics.
- Pre arrange charts, pictures or videos for more better understanding of the concept.

Exercise

**Key Solutions to PHB Exercises:**

1. Raking of the litter material before placing the waterers is quite appropriate. In this way, upside down of the litter material is feasible to keep dry the litter.
Raking of litter should be done slowly so as to avoid dust in the environment.
2. Recommended PPE includes : properly-fitted unvented or indirectly vented safety goggles, disposable gloves, boots or boot covers, a NIOSH-approved respirator (eg. N95), and disposable fluid-resistant coveralls, and disposable head cover or hair cover.

Notes



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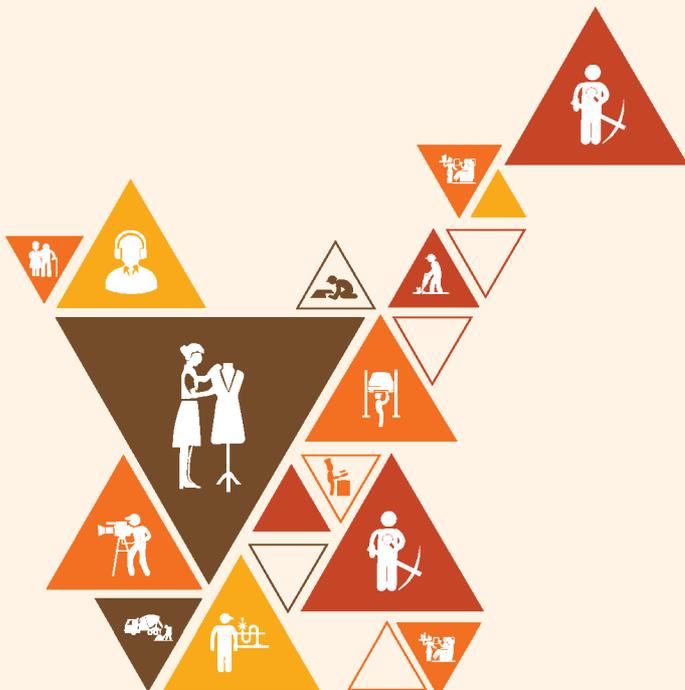
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5. Handling of Chicks/Birds in Poultry Shed

Unit 5.1 - Monitor the Health and Well-Being of Birds

Unit 5.2 - Brooding Management



AGR/N4328

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. Discuss about the behaviour of Poultry birds and safe handling of chicks/birds
2. Discuss different types of stress that occur in poultry birds and their management
3. Discuss health and hygiene requirements of poultry farm
4. Discuss appropriate stocking density as per the age of birds
5. List the materials (e.g. layering) and environmental conditions which birds need within their accommodation to maintain their health and well-being
6. Describe specific needs of special care birds
7. Explain the feed and drinking mechanisms for birds
8. Explain about balanced diet given for poultry birds at different stages
9. Explain how to monitor and assess the condition of birds and to identify the signs of stress, normal/abnormal behaviour
10. Explain the Industrial guidelines and standard operating procedure regarding the brooder/shed management
11. Explain the signs of stress, normal/abnormal behavior in birds and its alleviation methods
12. Explain the process of raking
13. Discuss bio-security measures and vaccination schedules of chicks/birds
14. Explain the rules and regulations pertaining to poultry welfare and farming
15. Explain the proper waste disposal methods

UNIT 5.1: Monitor the Health and Well-Being of Birds

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Discuss about the behaviour of Poultry birds and safe handling of chicks/birds
2. Discuss different types of stress that occur in poultry birds and their management
3. Discuss health and hygiene requirements of poultry farm ☑ Discuss appropriate stocking density as per the age of birds
4. List the materials (e.g. layering) and environmental conditions which birds need within their accommodation to maintain their health and well-being
5. Describe specific needs of special care birds
6. Explain the feed and drinking mechanisms for birds
7. Explain about balanced diet given for poultry birds at different stages
8. Explain how to monitor and assess the condition of birds and to identify the signs of stress, normal/abnormal behaviour
9. Explain the process of raking

Resources

- Participant handbook, pens / pencils, laptop, projector, white board, flip charts/paper, marker, duster, audio-visual aids, etc.

Say

- Welcome everyone to this training session and review the key points of previous session discussion.

Elaborate

- Monitor the health and well-being of birds
- Feeding and drinking mechanism for birds
- Vaccination of chicks/birds

Activity



Purpose : Knowledge enhancement about the behaviour of birds for monitor.

Methodology : Group discussion

Tentative time : It may be 20-30 minutes.

- Arrange the participants into 2-3 groups
- No team should get same topic
- Ask the teams to conduct group discussion of the following topics, write major monitoring points and share with other per groups post their participatory discussion:
 - ✓ Common behaviour
 - ✓ General behaviour
 - ✓ Social behaviour
 - ✓ Breeding behaviour

Summarize



- The key learning of above group discussion topics.
- Emphasize and elaborate important aspects of these topics.

Notes of Facilitation



- Ensure that every student is well acquainted with the process.
- Display relevant pictures, slides or videos related to the topic.
- Plan an outing to nearby poultry farm so that students have practical exposure.
- Encourage more participants to involve in group discussion and group activity.
- Facilitate the students if they face any kind of problem.

Exercise



Key Solutions to PHB Exercises

1. General behaviour, social behaviour, breeding behaviour, factors influencing behaviour.
2. (a) Incubation equipments :
 - Compressed air system, Setter, Hatcher, Waste removal system
 - (b) Egg handling equipments:
 - Hatching egg trays, Hatching egg transfer machin, Egg Candler
 - (c) Brooder equipment:
 - Gas brooder, Charcoal stove, Electric brooder, Infra-red bulb
 - (d) Feeding equipments:
 - Automatic feeder, Linear feeder, Circular feeder
 - (e) Water equipments:
 - Water heater, Manual drinker, Nipple drinker
 - (f) Vaccination equipments
 - (g) Beak trimmer etc.

3. Place the birds gently but quickly into the house and provide immediate access to water and feed.
4. The most used methods for disinfection with chemical agents in poultry houses are spraying, foaming thermo-misting.
5. Lift its whole body, not just the wings . You can tuck its head under your arm which will help it stay calm. Once you have it in your hands, you can support the bird with one arm and cover the wings with the other hand to prevent injury or flapping.

UNIT 5.2: Brooding Management

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain the Industrial guidelines and standard operating procedure regarding the brooder/shed management.
2. Explain the rules and regulations pertaining to poultry welfare and farming.
3. Explain the proper waste disposal methods.

Resources to be Used

- Available objects such as a white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and appreciate the participants for their participation. Before beginning the session, recapitulate the previous session discussion.

Elaborate

- With the help of audio-visual aids and the Participant handbook, elaborate terms such as:
 - ✓ Artificial brooding
 - ✓ Natural brooding
 - ✓ Procedure of brooder preparation

Activity

Purpose: To observe the procedure followed for brooder operation. The activity may be planned for 2-3 hours or more depending on distance of location.

Material Required: Pen/pencil, Notebook, Checklist.

Methodology: Stage presentation, Pen and paper activity

Procedure: Distribute the participants in group and ask them to visit nearby poultry farm. Then talk to the poultry farmer and ask him the procedure of brooder preparation and then write it in your notebook. After this, do a group discussion and then the trainer will call a volunteer and ask him to summarize the topic.

Do

- Make sure the participants have properly understood the topic.
- Ask the participants if they have any questions.

Notes for Facilitation

- Assist the students to understand the topic.
- Visual demonstration on what is the procedure of brooder operation.
- Show the photographs of Natural and Artificial brooding.

Exercise**Key Solutions to PHB Exercises**

1. To keep the environment of poultry shed clean and hygienic it is advised to the farmer to dispose the waste properly according to the manner prescribed by the regulatory authorities. For further details regarding waste disposal refer to Unit 3.2.4.
2. **Artificial brooding:** When the brooding hen is not available, artificial brooding is used for rearing of large number of chicks.
3. **Natural Brooding:** After hatching, for up to 3 to 4 weeks, it is carried out with the help of broody hens.

Notes



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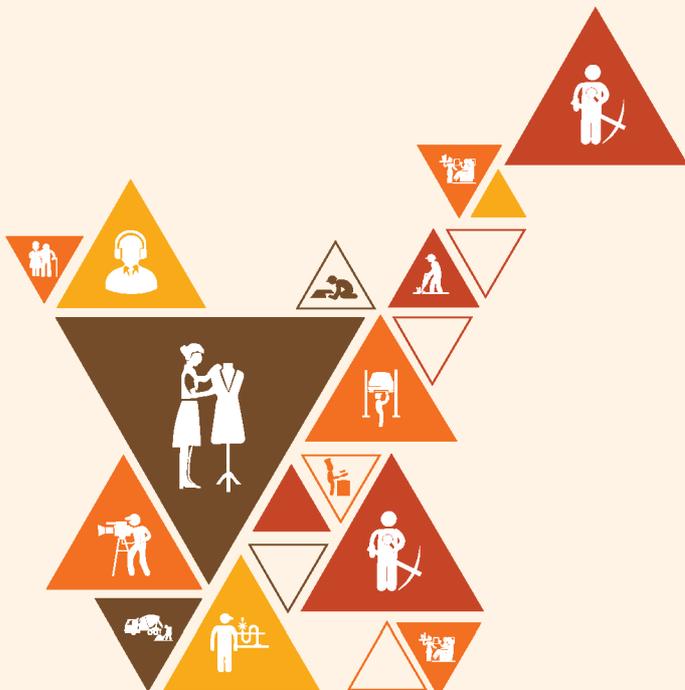
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6. Feeding and Watering Poultry Birds

Unit 6.1 - Feed for Poultry Birds

Unit 6.2 - Management of Feed and Water



AGR/N4329

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. Explain the norms to be followed in receiving, the handling, distributions of the feed as per industry standard
2. Explain the parameter to check the quality of the feed
3. Discuss the quantity and type of feed and water requirements of birds as per their breed, season and growth stage
4. Discuss appropriate method of storage of feed to prevent moisture or fungal/pest infestation
5. Explain the impact of storing feed and water in unclean & improper conditions on birds health and the business
6. Explain remedial measures and management techniques of different pests and diseases which affect the feed
7. Describe the timing and amount of feed and water supply
8. Explain the quantity and type of feed supplements and water requirements of birds as per their breed, season and growth stage
9. Discuss feed composition and resources required for poultry birds
10. Explain calculation of quantity of feed to be delivered to poultry birds
11. List types of feed, ingredients of poultry feed and their required qualities
12. Explain importance of water supply to birds
13. Describe the Feed Conversion Ratio of Poultry birds
14. List principles of stock rotation
15. Describe basic nutritional requirements of birds, including water storage
16. Discuss hygiene to be maintained before and after handling poultry feed
17. Discuss the parameters to be considered while monitoring of health and wellbeing of birds
18. Explain about correct methods for disposing of organic and inorganic feed waste

UNIT 6.1: Feed for Poultry Birds

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain the norms to be followed in receiving, the handling, distributions of the feed as per industry standard.
2. Explain the parameter to check the quality of the feed .
3. Discuss the quantity and type of feed and water requirements of birds as per their breed, season and growth stage.
4. Describe the timing and amount of feed and water supply.
5. Explain the quantity and type of feed supplements and water requirements of birds as per their breed, season and growth stage.
6. Discuss feed composition and resources required for poultry birds
7. Explain calculation of quantity of feed to be delivered to poultry birds
8. Describe basic nutritional requirements of birds, including water storage
9. Discuss hygiene to be maintained before and after handling poultry feed
10. Discuss the parameters to be considered while monitoring of health and wellbeing of birds

Resources to be Used

- Available objects such as participant handbook, white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and revise the key learnings of previous session discussion.

Elaborate

- Resources of Feed
- Prepare Feed supplies for birds

Activity

Purpose: To remember the Scavengable Feed Resources Base . This activity may be planned for 30-40 minutes.

Methodology: Pen and paper activity

Procedure:

- Divide the participants into 2 or 3 groups.
- Ask the participants to enlist the Feed Resources and get a volunteer out from every group one by one to write the points on the board.
- Then discuss those points with the participants.

Say

- Sum up key learnings of the above discussion.

Demonstrate

• **With the help of audio visual aids or possible practical visits:**

- ✓ Preparation of food supplies for birds
- ✓ During the demonstration, ask the participants to observe keen fully the preparation of food supplies.

Team Activity

Purpose: To remember the points related to the poultry feed ingredients and essential nutrients.

Methodology: Quiz Activity and it may be 1 hours.

Procedure :

- Divide the class into groups of three and give a name to each group
- Explain the rules of the quiz. For each correct answer the group gets 1 mark. If the group is unable to answer the question is rolled over to the next group.
- Write the names of the groups on the board.
- Ask the questions of the quiz.
- Keep a score for the groups.
- Set guidelines pertaining to discipline and expected tasks.

Notes for Facilitation

- Display relevant pictures, slides or videos related to the topic.
- Plan an outing to nearby poultry farm so that students have practical exposure.
- Encourage more participants to involve in group discussion and group activity.
- Facilitate the students if they face any kind of problem.

Exercise

Key Solutions to PHB Exercises

1. Materials such as feed ingredients, fuels , powers , etc.
2. Candidate may prepare as per the recommendation for different feed and discuss with the trainer and peer group for any required modifications.
3. Practical exercise.
4. Role play activity can be done for the demonstration.

UNIT 6.2: Management of Feed and Water

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Discuss appropriate method of storage of feed to prevent moisture or fungal/pest infestation
2. Explain the impact of storing feed and water in unclean & improper conditions on birds health and the business
3. Explain remedial measures and management techniques of different pests and diseases which affect the feed
4. Explain importance of water supply to birds
5. Describe the Feed Conversion Ratio of Poultry birds
6. List principles of stock rotation
7. Explain about correct methods for disposing of organic and inorganic feed waste

Resources to be Used

- Available objects such as participant handbook, white board, duster, marker, flip chart, board, paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and recall the previous session learning outcomes.

Elaborate

- Explain the following topics with the help of participant handbook, PPT and other visual aids, etc.
 - ✓ Feed and Water Management
 - ✓ Feed Conversion Ratio

Demonstrate

- With the help of table given in the participants handbook, demonstrate the Meat production, Age , Feed conversion ratio of Different Poultry Species.

Do

- Encourage the students to actively participate in the activity.
- Encourage the non-participants to open up and speak up.
- Share your own thoughts and viewpoints related to the topic.

Notes of Facilitation

- Answer all the questions of the participant.
- Focus on ensuring pictorial as well as live presentation for learning.
- Nearby visit to Poultry farm will help the students to have better understanding about the management.

Exercise**Key Solutions to PHB Exercises**

1. Calculating Feed Conversion Ratio is as simple as taking total amount of feed consumed by the flock and dividing it by the amount of weight gained or the number of eggs produced.
2. Individual Feed Intake (kg) = cage feed intake (kg) / the number of birds in a cage
3. By the help of checklist and ensure the balanced feed rations at regular intervals have been provided to different purpose poultry such as layer and broilers.
4. Common PPE worn to protect food includes gloves, safety glasses, masks, face shields, and hairnets.
5. Visit nearby poultry unit and observe all the things and prepare a checklist and concern with your trainer.

Notes



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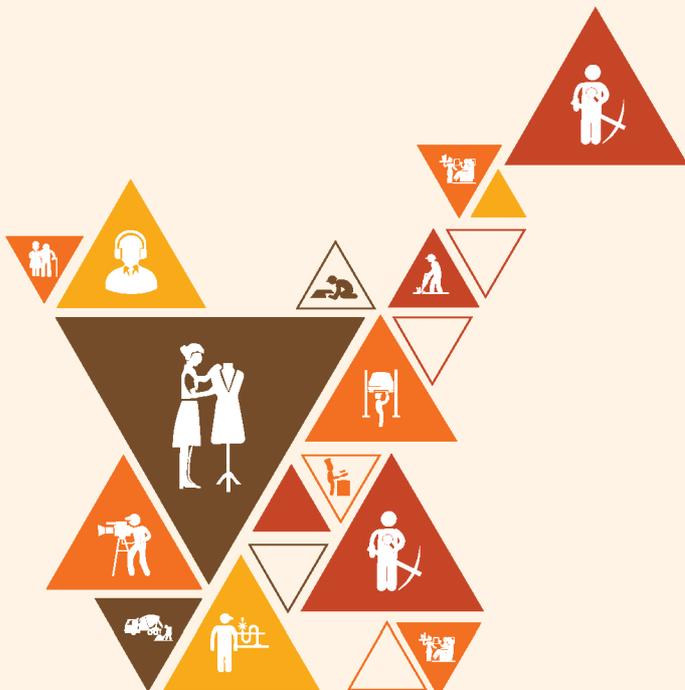


7. Maintaining the Health of Poultry Birds

Unit 7.1 - Health and Well-Being of Birds

Unit 7.2 - Treatment of Diseases in Poultry Birds

Unit 7.3 - Deliver Basic Recommended Treatment to Birds



AGR/N4330

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. Explain importance the balanced diet for poultry birds
2. Discuss biosecurity measures requirements in the poultry farm
3. Discuss the importance of maintaining good health
4. Discuss medication process for treatment of problems of poultry birds as per applicable standard and regulations
5. Discuss ethno-veterinary practices adopted in the treatment of common diseases
6. List the different types of vaccines and the frequency in which they are administered to the chicks
7. Explain techniques and methods of administering prescribed basic healthcare treatments
8. Discuss sufficient stocking density requirements for movement and comfort of birds
9. Explain the normal and abnormal behavioural signs in birds
10. Describe characteristics of the breed according to growth stage
11. Discuss method of debarking and deworming of poultry birds and its importance
12. Discuss different diseases infecting poultry birds, symptoms and recommended vaccines and their schedule
13. List preventive measures for health care of chicks
14. Explain different vaccination of poultry birds and their dose at recommended schedule for immunization
15. Discuss management techniques of poultry pest and parasites
16. Discuss about culling
17. List the emergency drugs and vaccines and discuss their proper storage
18. Explain physical appearance and movement of healthy birds
19. Explain the rules and regulations pertaining to poultry welfare and farming
20. Explain impact of not following health, safety and quality standards
21. Discuss possible sources of contamination to the medication and medical equipment
22. Discuss different type of waste their management
23. Discuss importance of maintaining record of the vaccination and medication details in the concerned register

UNIT 7.1: Health and Well-being of Poultry Birds

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain importance the balanced diet for poultry birds
2. Discuss biosecurity measures requirements in the poultry farm
3. Discuss the importance of maintaining good health
4. Explain importance the balanced diet for poultry birds
5. Discuss biosecurity measures requirements in the poultry farm
6. Discuss the importance of maintaining good health
7. Discuss method of debarking and deworming of poultry birds and its importance
8. Discuss about culling
9. Explain physical appearance and movement of healthy birds
10. Explain impact of not following health, safety and quality standards

Resources to be Used

- Available objects such as a participant handbook, white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Ask

- What do you understand by Balance Diet ?

Elaborate

- Monitor the health of birds
- Bio Security
- Balanced diet for maintenance of health
- Stocking density
- Culling
- Signs of healthy birds

Activity



Purpose: To acquaint about the signs of Healthy birds. This activity may be planned for 15-20 minutes.

Methodology : Pen and per activity

- Ask the participants to list out signs of healthy birds.
- Ask any one of the participants to pin point the factors on white board.
- Ask the other participants to discuss amongst themselves and ask any queries realised to the topic.

Say



- Emphasize and elaborate the key points of the discussion.
- Share your views regarding the Monitor the health of birds.

Notes of Facilitation



- Assist all groups to understand the topic clearly through visualization.
- Ask any local poultry farmer to share how he monitor the birds to keep them healthy.
- Keep some exercises handy for the activity.
- Constantly motivate each student to participate.
- Address the queries of the participants and clear all the doubts participants.

Exercise



Key Solutions to PHB Exercises

1. **Signs of healthy birds:** Smooth and net feathers, Breath quietly, Soft and compact droppings, Eat and drink normally, Alert, On guard, Lay eggs normally, Walk, run, stand and scratch .
2. **Debeaking:** Debeaking is the removal of beaks, as the name suggests, however only a portion of the beak will be removed. This is done to avoid vices like pecking (eating one's own species), feather picking, egg eating, and feed waste reduction, among others. With the use of a debeaking machine, it is often carried out on birds that are at least 6 weeks old.
3. **Deworming:**
 - Birds raised on floors are subjected to deworming.
 - Caged birds do not have access to faeces, hence it is unlikely that they would have worms load.
 - After roughly three months of age, the parasitic burden actually manifests, and as a result there is no requirement to deworm.
4. **Culling:** Culling of the birds are based on weight basis, external appearance (crooked keel bone, drooping of wings, ruffled feathers, lesser pelvic space and shrunken comb and wales) and lack of layer bird conformation.

UNIT 7.2: Treatment of Diseases in Poultry Birds

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Discuss medication process for treatment of problems of poultry birds as per applicable standard and regulations.
2. Discuss ethno-veterinary practices adopted in the treatment of common diseases.
3. List the different types of vaccines and the frequency in which they are administered to the chicks.
4. Explain techniques and methods of administering prescribed basic healthcare treatments.
5. Discuss different diseases infecting poultry birds, symptoms and recommended vaccines and their schedule.
6. Explain different vaccination of poultry birds and their dose at recommended schedule for immunization.
7. List the emergency drugs and vaccines and discuss their proper storage.
8. Discuss possible sources of contamination to the medication and medical equipment.

Resources to be Used

- Available objects such as a white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and appreciate participants for their participation. Recall the previous session outcomes and then proceed towards the session.

Elaborate

With the help of the participant handbook, audio-visual aids , discuss in detail about:

- Types of diseases such as :
 - ✓ Infectious diseases
 - ✓ Non-infectious diseases
- Vaccination

Activity



Purpose : Identification of diseases . The tentative time limit for the activity could be 30 minutes.

Methodology : Demonstration in groups

- Arrange the participants into three groups.
- Show the various diseases caused by virus, parasites and bacteria through PPT or available charts etc..
- Ask the teams to identify the diseases and to write their symptoms post discussing with their group members :
 - ✓ Viral diseases
 - ✓ Parasitic diseases
 - ✓ Bacterial diseases
- Ask one of the volunteers from each group to present their learnings.

Summarize



- The key learning of above group discussion topics.
- Emphasize and elaborate important aspects of these topics.

Do



- Arrange relevant handouts and leaflets to have a better understanding of Vaccination schedule.

Exercise



Key Solutions to PHB Exercises

1. Virus

- Newcastle Disease, Avian Encephalomyelitis, Fowl Pox, Marek's Disease, Infectious Bronchitis, Infectious Laryngotracheitis, Gumboro Disease (Infectious Bursal Disease), Duck Virus Hepatitis
- Bacteria
- Fowl Cholera, Salmonellosis, Pullorum, Fowl Typhoid, Infectious Sinusitis, Colibacillosis
- Parasites
- Ectoparasites: lice, mites, ticks
- Endoparasites: Nematodes, Histomoniasis, Haemoparasites, round worms, hair worms, Avian Malaria
- Protozoa: Coccidiosis, Blackhead.

2. Herpes virus turkey vaccination, RD vaccine, Marek's vaccine , R2B Ranikhet, etc.

3. Newcastle disease or Ranikhet disease is a respiratory disease caused in poultry by an Avian paramyxovirus type 1 (APMV-1) virus.

Symptoms : Drooping wings, dragging legs, twisting of the head and neck, circling, depression, complete paralysis.

UNIT 7.3: Basic Recommended Treatment to Birds

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Discuss different type of waste their management.
2. Discuss importance of maintaining record of the vaccination and medication details in the concerned register.
3. Discuss possible sources of contamination to the medication and medical equipment.
4. Discuss management techniques of poultry pest and parasites.

Resources to be Used

- Participant handbook, Pens / pencils, Sticky Notes, Notepad, Computer, Projector, White board, flip Charts, Audio-Visual Aids, etc.

Explain

- Recommended treatment to birds.

Elaborate

- Ethno-Poultry Practices for Common Problems
- Maintenance of Record

Activity

Purpose : To facilitate learning through groups. The activity may be planned for 30-40 minutes.

Material required : Projector, display screen, round table sitting arrangement.

Expected outcome : Clarity of thoughts among participants.

- Divide the participants in 6 teams. Ask each team to prepared with different topics like Ethno-Poultry Practices for Common cold and cough, Diarrhoea, Ranikhet disease, etc.
- Each group to make a presentation not more than 5 slides depicting the various recommended treatment for birds and it should be an interactive session. Instructor should act as the facilitator for better discussion among groups.
- Group which will engage more the audiences, will be declared as the best one.

Notes for Facilitation



- Help the participants to complete all the exercises mentioned in the participant handbook.
- Encourage participants of group discussion to ask questions so that they can clear their doubts.

Exercise



Key Solutions to PHB Exercises

1. The records are necessary to study the production performance, and check whether it meets the prescribed standards. Records should provide information for future planning, changes and expansions, if any.
2. **Ethno-Poultry Practices For Common Problems**

Cough and cold :

1. Crush 3-4 garlic cloves or 10 grams of ginger rhizome or 5 chilies and mix with feed daily in the morning until the symptoms disappear. All doses are for 10 birds.
2. Chop ¼ onions per bird and feed it to chicken
3. Pound 10gm of fresh ginger rhizome, squeeze out the juice and mix the juice with 250ml of water and 10gm of brown sugar. This mixture is sufficient for 10 birds and is given as drinking water.

Diarrhoea:

1. Crush 7-10 garlic cloves and a fingernail sized piece of turmeric rhizome. Mix this amount in feed everyday (Sufficient for 10 birds).
2. Boil 250gm of brown sugar with 1litre of water. Add 250gm of powdered turmeric rhizome and boil until only half of the water remains. allow to cool and store in dry bottle. Add 3tsp of this mixture in drinking water each day(Sufficient for 10 birds).
3. Give water left after cooking rice instead of drinking water, this binds the stomach.
4. Give refined wheat flour as feed as long as diarrhea lasts.

New castle (Ranikhet) Disease

1. Vaccination is a must. The disease occurs primarily with weather changes.

Notes



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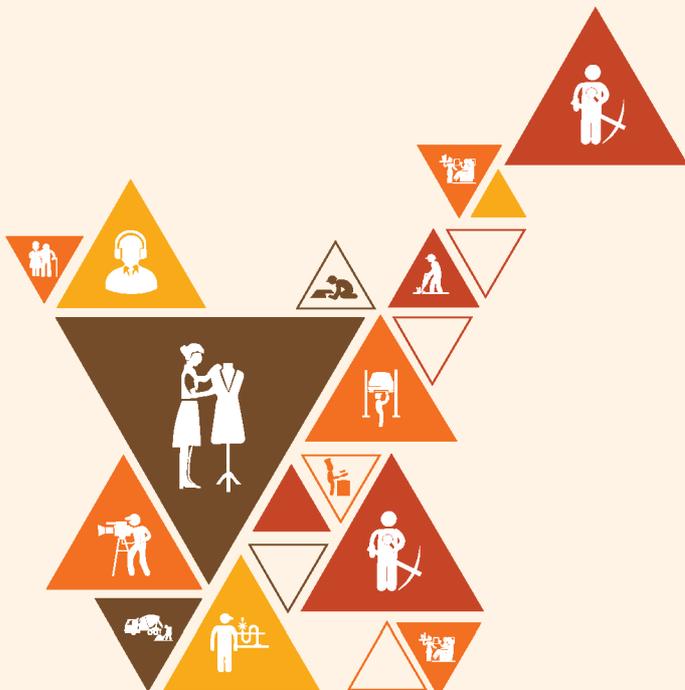


8. Harvesting Eggs and Meats from Birds

Unit 8.1 - Carrying Out Harvesting Activities

Unit 8.2 - Harvesting of Birds

Unit 8.3 - Marketing



AGR/N4331

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. Discuss appropriate harvesting condition and requirements for harvesting of eggs and meat
2. Discuss pre-harvest activities and identification of appropriate time of harvesting
3. Explain quality signs for identifying the birds which are fit for harvesting
4. Discuss collection of egg, handling of egg and time of harvesting
5. List factors impacting birds' stress and minimization procedure
6. Describe necessary precautions to be taken for stress free harvesting and sanitation of equipment and work area.
7. Discuss the guidelines and importance of health, hygiene, safety and quality standards of the birds.
8. Explain the harvesting period of the birds.
9. Discuss the quality check parameter of egg while collecting it
10. Discuss quality signs for identifying the poor and good layer birds
11. Explain different marketing channels for eggs/broiler birds
12. Discuss to parameters to grade and store the eggs
13. Explain how to maintain a conducive environment for collecting eggs and lifting of birds
14. Discuss the various marketing strategies to sell the eggs in the market
15. Discuss suitable mode of transportation for table/hatching eggs to market and live birds to market or processing plants
16. Explain the rules and regulations pertaining to poultry welfare and farming
17. Explain impact of not following health, safety and quality standards

UNIT 8.1: Carry out Harvesting Activities

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Discuss appropriate harvesting condition and requirements for harvesting of eggs and meat.
2. Discuss collection of egg, handling of egg and time of harvesting.
3. List factors impacting birds' stress and minimization procedure.
4. Describe necessary precautions to be taken for stress free harvesting and sanitation of equipment and work area.
5. Discuss the guidelines and importance of health, hygiene, safety and quality standards of the birds.
6. Discuss the quality check parameter of egg while collecting it.
7. Discuss quality signs for identifying the poor and good layer birds.

Resources to be Used

- Available objects such as a participant handbook, white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and recall the previous session learning outcomes.

Elaborate

With the help of PHB and Audio-visual aids, elaborate

- Harvesting activities
- Layer breeds
- Methods of Collections

Activity

Purpose : Knowledge enhancement . Time may be plan for 15 minutes.

Methodology : Pen and Paper activity

- Ask each participants to list out 10 differences between Good layer and Bad layer.
- Ask 4-5 participants to stand randomly and share the findings among their peers.

Do

- Clear the doubts of students related to the topic.
- Motivate the students to open up and ask questions.

Field Visit

Purpose : To enhance the knowledge on techniques and method for the collections of eggs and lifting of birds.

Methodology : Field visit and the time varies according to the location, it may be 2 hours.

- Arrange a visit to nearby poultry farm.
- Ask the participants to interact with farmer regarding the method of collection.
- Discuss the problems faced during collection.

Notes for Facilitation

- Students must be encouraged for going through the participant handbook and come prepared with thorough reading.

Exercise

Key Solutions to PHB Exercises

1. PPE and Collection egg tray
2. Depends upon the no. of layer hens in a shed and their average production level.
3. Mechanical collection of eggs is common in modern layer farms. It takes about 26 hours for each egg to develop and each hen lays an egg a little later each day. This is not an exact thing and most eggs are laid in the morning. Regular collection of eggs should be done. Refer section 8.1.2.
4. Assess the poultry sheds to roughly estimate the number of eggs laid by the birds and the birds which look fit for meat harvesting. (For more details, visit poultry unit and talk to pultry farmer).

UNIT 8.2: Harvesting of Birds

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain the harvesting period of the birds
2. Explain the rules and regulations pertaining to poultry welfare and farming
3. Explain impact of not following health, safety and quality standards
4. Explain quality signs for identifying the birds which are fit for harvesting
5. Discuss pre-harvest activities and identification of appropriate time of harvesting

Resources to be Used

- Available objects such as a white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and revise the key learnings of previous session discussion.

Elaborate

- Identification of birds for harvesting
- Stress factors for birds
- Harvesting of birds

Activity

Purpose: To acquaint about the selection of Apiary site. This activity may be planned for 15-20 minutes.

Methodology : Pen and per activity

- Ask the participants to list out factors to identify the birds for harvesting.
- Ask any one of the participants to pin point the factors on white board.
- Ask the other participants to discuss amongst themselves and ask any queries realised to the topic.

Field Visit



Purpose: To perceive the methods of harvesting of birds.

Methodology: Field visit and the time varies according to the location, it may be 1-2 hours.

Expected outcome:

- Confidence building
- Knowledge enhancement

Organize a visit and ask the participants to write down the steps that involve in harvesting of birds by the help of poultry farmer.

Summarize



- Sum up the session with appreciation for active and patient learning of the participants.

Notes of Facilitation



- Ask the participants if they require any kind of help.
- Organize visit to nearby poultry farm for better understanding of the concept.
- Arrange relevant pictures and posters showing the birds which can be harvested.

Exercise



Key Solutions to PHB Exercises

1. PPE and Collection egg tray
2. Depends upon the no. of layer hens in a shed and their average production level.
3. Mechanical collection of eggs is common in modern layer farms. It takes about 26 hours for each egg to develop and each hen lays an egg a little later each day. This is not an exact thing and most eggs are laid in the morning. Regular collection of eggs should be done. Refer section 8.1.2.
4. Assess the poultry sheds to roughly estimate the number of eggs laid by the birds and the birds which look fit for meat harvesting. (For more details, visit poultry unit and talk to poultry farmer).

UNIT 8.3: Marketing

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain different marketing channels for eggs/broiler birds
2. Discuss to parameters to grade and store the eggs
3. Discuss the various marketing strategies to sell the eggs in the market
4. Discuss suitable mode of transportation for table/hatching eggs to market and live birds to market or processing plants
5. Explain the rules and regulations pertaining to poultry welfare and farming
6. Explain impact of not following health, safety and quality standards

Resources to be Used

- Available objects such as a white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and revise the key learnings of previous session discussion.

Elaborate

- Marketing
- Supply mechanisms for poultry meat and eggs

Field Visit

Purpose : To enhance the knowledge of marketing of poultry meat and eggs.

Methodology : Field visit and the time varies according to the location, it may be 2 hours.

- Arrange a visit to nearby market
- Ask the participants to interact with shopkeeper regarding marketing procedure of poultry product.
- Discuss the problems faced during the sale of poultry products.
- Emphasize methods for local marketing for small-scale poultry farm.
- Point out that marketing is as important as producing in a poultry farm.

Notes of Facilitation

- Assist the participants to prepare attractive and colourful label of poultry product.
- The participants may be asked to explore different avenues for marketing poultry products.
- Encourage the students to prepare their own marketing strategy.

Exercise

Key Solutions to PHB Exercises

1. Three channels :
 - (a) Farmers-consumers
 - (b) Farmers- retailers- consumers
 - (c) Farmers-wholesalers-retailers-consumers)
2. Generally by truck, air transport may be used.

Notes



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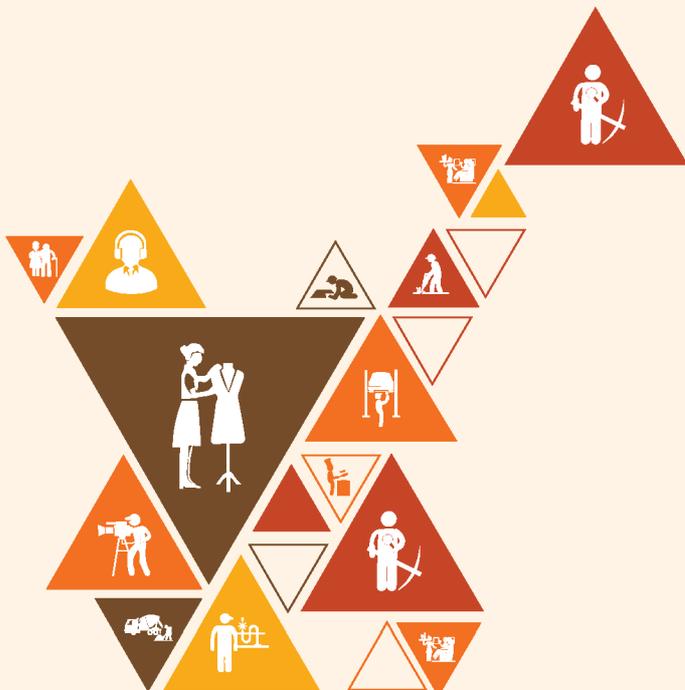
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9. Effective Communication at Workplace

Unit 9.1 - Coordination with Colleagues



AGR/N4331

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. Explain the importance of verbal and non-verbal communication at the workplace.
2. Explain the effective methods of sharing and seeking information and feedback at the workplace.
3. Explain the procedure for completing work-related documentation.
4. Describe the process of mentoring an apprentice at the workplace.
5. Explain the importance of inclusion of all genders and People with Disability (PwD) at the workplace.
6. Explain gender concepts (gender as a social construct, gender sensitivity, gender equality etc.), issues and applicable legislation.
7. Explain ways in which a conducive working environment can be created for all genders and PwD.
8. Define the need for appropriate verbal and non-verbal communication while interacting with all genders and PwD.
9. Explain the applicable PwD related regulations.
10. Explain the procedure to report inappropriate behaviour e.g., harassment.

UNIT 9.1: Coordination with Colleagues

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Interpret and note down instructions.
2. Carry out work related documentation
3. Demonstrate and Assign the work to an apprentice
4. Monitor and report the progress and performance of an apprentice to senior .
5. Explain safety procedure and use of PPE to the apprentice.
6. Maintain Conducive environment and equal participation for all the genders and Persons with Disabilities (PwD) at the workplace.

Resources to be Used

- Available objects such as a participant handbook, white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Explain

- Conflict management, team bonding.
- Instructions on the work requirements as per procedures.
- Importance of effective communication for safe work environment.
- How to escalate any issues and problems to the reporting supervisor.
- How to take customer feedback on work standards.

Demonstrate

- With the help of audio visual aids, various types of safety signs and how effectively workers can use safety signs along with coordination among colleagues.

Activity

- Visit a Poultry farm to observe the behaviour of the workers and their way of dealing with customers. This activity may be clubbed with earlier visits to Poultry farm. With tentative duration of 15-20 minutes.
- **Materials required:** Pen/Pencil, Notebook, Checklist.
- **Procedure**

1. Reach the Poultry farm at the decided time with your group.
2. Meet the concerned farmer, greet them and tell the purpose of the visit.
3. Observe their way of dealing with the customers in the farm.
4. Finalise your notes with your friends.
5. Make a report and submit to the subject teacher.

Notes for Facilitation



- Indicate potential source of information to each of the group.
- Assist all groups to systematically arrange collected information and analyze them- when required.
- Constantly motivate each student to participate.
- You may invite any representative of local poultry farmer to grace the training session; request him/her to give feedback/award on the team work of participants.
- Participants can be encouraged to do more group activities to understand about coordination among each other.
- Where possible, display specific work of groups within the classroom.

Exercise



Key Solutions to PHB Exercises

A. Short questions

1. Create a healthy culture, learn to spot the early signs of conflict, deal with conflict promptly, never take sides.
2. Make a good introductions, actively listen, ask engaging questions, be aware of your body language, etc.

B. Fill in the blanks-

1. Facts, interpretation or relations
2. Best outcomes

C. Multiple Choice Questions

1. All of the above



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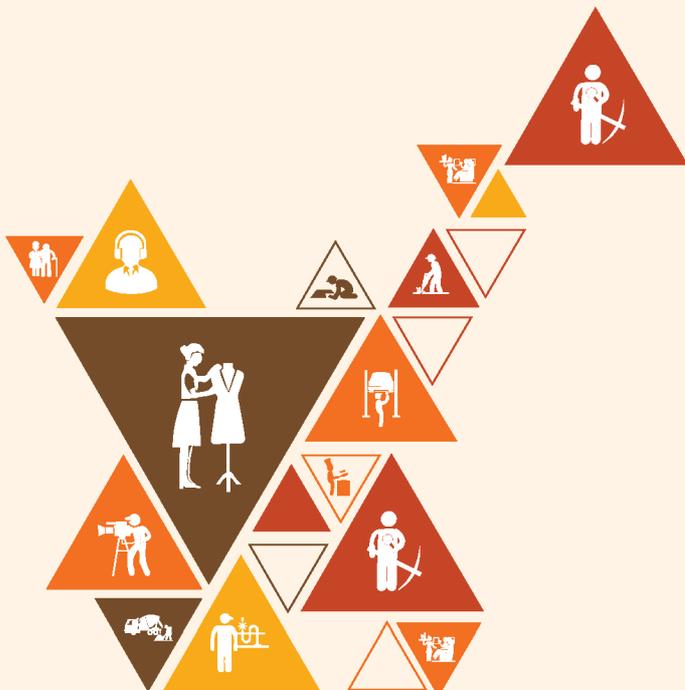


10. Sanitation and Biosecurity Measures for Replacement Stock

Unit 10.1 - Disinfectants and Disinfection of Poultry House

Unit 10.2 - Biosecurity

Unit 10.3 - Waste Management



AGR/N4332

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. Explain the method and schedule of post-harvest clean out
2. Discuss farm decontamination
3. Explain procedures of maintaining and sanitizing feed and water equipment
4. Describe safe use of disinfectants
5. Explain the importance of PPE during cleaning and disinfection
6. Explain management techniques of different pests and diseases
7. Explain safe waste disposal methods for litter, discarded feed, dead birds and other poultry waste
8. Discuss causes of disease spread and methods of preventing disease spread from humans and other birds and animals and vice-versa
9. Explain the regulations for bird hygiene and proper sanitized environment for bird rearing
10. Explain about structural and operational biosecurity norms
11. Explain the procedure for dead bird disposal
12. List the disinfectants used at farm and their methods of application
13. Discuss different cleaning procedures.
14. Explain importance of signage boards and entry restrictions
15. Explain the rules and regulations pertaining to poultry welfare and farming
16. Explain impact of not following health, safety and quality standards

UNIT 10.1: Disinfectants and Disinfection of Poultry House

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain the method and schedule of post-harvest clean out
2. Discuss farm decontamination
3. Explain procedures of maintaining and sanitizing feed and water equipment
4. Describe safe use of disinfectants
5. Explain the importance of PPE during cleaning and disinfection

Resources to be Used

- Available objects such as a participant handbook, white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Good day and welcome all the participants to the training session. Recall the key points of previous session discussion.

Elaborate

- Elaborate the following topics with the help of participant handbook, audio visual aids etc.
 - ✓ Disinfection of Poultry House
 - ✓ Different disinfectants
 - ✓ Disinfection procedure
 - ✓ Maintenance of quality feed and water
 - ✓ Precautions of diseases

Say

- Sum up key learnings of the above discussion.

Activity



- **Purpose :** To recall different disinfectants. This activity may be planned for 20-30 minutes.
- **Methodology: Game activity (Passing the parcel)**
- **Procedure :**
- Make the participants stand in circle, close enough to the person so that they can transfer the parcel quickly.
- Say 'stop' when students least expect it. The person who has the parcel will come out and tell about any one disinfectant and its characteristics.

Say



- Thank' you to everyone for their participation.
- Did you enjoy this activity? We will enjoy the upcoming activities as well.
- Discuss responses of participants regarding disinfectants.

Notes for Facilitation



- Encourage active participation and engagement from students, such as through group discussions and hands-on exercises.
- Provide a balance of both theoretical and practical information on the disinfectants and other objects needed in this process.
- Get participants to open up their participant handbooks and solve the exercises given at the end of the unit.

Exercise



Key Solutions to PHB Exercises

1. Disinfectant is necessary because one of the key biosecurity measures for disease control.
2. Ideal disinfectants are broad spectrum, fast acting, nontoxic, etc.
3. Diffusion method
4. Approx. 5.25 to 16%.
5. Methyl bromide and phosphine

UNIT 10.2: Biosecurity

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain about structural and operational biosecurity norms
2. Explain the procedure for dead bird disposal
3. List the disinfectants used at farm and their methods of application
4. Discuss different cleaning procedures.

Resources to be Used

- Available objects such as a white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Elaborate

- Guidelines for biosecurity.
 - ✓ Locational biosecurity
 - ✓ Structural biosecurity
 - ✓ Operational biosecurity

Activity

Purpose : To perceive the guidelines for biosecurity and time will be 20 minutes.

Methodology : Pen and paper activity

- Divide the participants into three groups
- Ask the participants to write on locational, structural and operational biosecurity .
- Now discuss the points of every group.

Say

- Thankyou everyone for their participation
- Discuss responses of the participants regarding the discussion.

Notes of Facilitation



- Assist all groups to understand the topic clearly through visualization.
- Encourage the participants to maintain their own records.
- Keep some exercises handy for the activity.
- Constantly motivate each student to participate.
- Address the queries of the participants and clear all the doubts participants.

Exercise



Key Solutions to PHB Exercises

1. 1.6 km.
2. pH, conductivity, total hardness, total coliform bacteria etc.
3. Direct contact, droplets, airborne route.
4. To keep infection pressure beneath the level.

UNIT 10.3 : Waste Management

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain importance of signage boards and entry restrictions
2. Explain the rules and regulations pertaining to poultry welfare and farming
3. Explain impact of not following health, safety and quality standards
4. Explain safe waste disposal methods for litter, discarded feed, dead birds and other poultry waste

Resources to be Used

- Available objects such as a white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images .

Ask

- What do you understand by waste management ?

Team Activity

Purpose : To understand the topic. This may be plan for 15 – 20 minutes.

Methodoly : Group Discussion

- Make team of 2-3 participants and ask each team to have group discussion on the topic how to manage waste product .
- Facilitate team members to answer any query related to topics.

Elaborate

- Waste Management
 - ✓ Composition of manure
 - ✓ Types of poultry waste
 - ✓ Percentages of nutrient intake excreted by poultry
 - ✓ Disposing of poultry waste – ways
 - ✓ Land applicati on
 - ✓ Composting
 - ✓ Incineration
 - ✓ Feed for livestock
 - ✓ Electricity generation
 - ✓ Disposing dead birds

Do

- Make sure the participants have properly understood the topic.
- Ask the participants if they have any questions.

Notes for Facilitation

- Ensure that each participant understand the concept thoroughly.
- Participation of trainees must be encouraged specially in management of waste.
- Trainer must organize visit to poultry farm to give demonstration and exposure to real exposure of disposing and recycling the waste product.

Exercise**Key Solutions to PHB Exercises**

1. Bedding material, excreta, feed, feathers, hatchery waste, mortality waste etc.
2. Feces, urine, bedding, additional water and wasted feed.
3. Solid waste, liquid waste and gaseous waste.
4. Among animal manures, poultry droppings have higher contents. It has nitrogen, phosphorus, potassium, calcium, magnesium and appreciable quantities of micronutrients like Cu, Zn, Fe, Mn, etc.
5. Refuse, Reduce, Reuse, Repurpose, Recycle.

Notes



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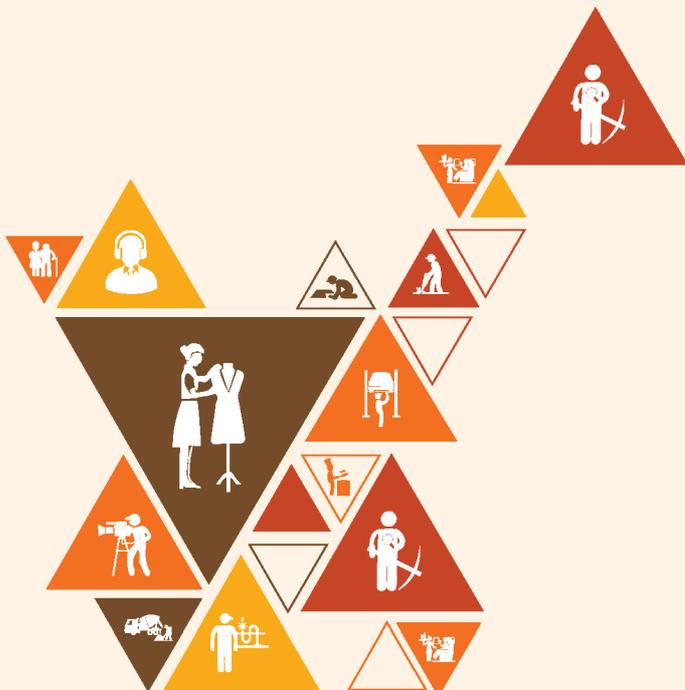
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11. Documentation and Record Keeping

Unit 11.1 - Documentation and Record Keeping of Layer/Broiler Birds



AGR/N4334

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. Explain the importance of documentation and maintenance of accurate and complete
2. Discuss different types of record to keep for poultry
3. Discuss methods of documentation and record related to poultry farm like- of layer and broilers, complete poultry production process and financial records
4. Discuss record keeping system used in poultry production
5. Discuss about methods to track back the record from finished product to raw material.
6. Explain the methods to calculate revenue, profit, input-output ratios, B:C ratio for the better decision making and Ascertainment of the business.
7. Explain the rules and regulations pertaining to poultry welfare and farming
8. Explain impact of not following health, safety and quality standards

UNIT 11.1 : Documentation and Record Keeping

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain the importance of documentation and maintenance of accurate and complete
2. Discuss different types of record to keep for poultry
3. Discuss methods of documentation and record related to poultry farm like- of layer and broilers, complete poultry production process and financial records
4. Discuss record keeping system used in poultry production
5. Discuss about methods to track back the record from finished product to raw material.
6. Explain the methods to calculate revenue, profit, input-output ratios, B:C ratio for the better decision making and Ascertainment of the business

Resources to be Used

- Available objects such as a participant handbook, white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Elaborate

- Documentation and record keeping
- Importance of Records

Activity

Purpose : To perceive the given topic . Time may be plan for 20-30 minutes.

Methodology : Pen and Paper activity

- Make groups of 2 or 3 students and ask them to visit Poultry farm.
- Ask each participate to maintain the records of layers and broilers.
- Facilitate the participants to help them to maintain the record.
- Address any queries of the participants.
- At the end of the activity , students should be able to maintain the records.

Do

- Encourage the students to actively participate in the activity.
- Encourage the non-participants to open up and speak up.
- Share your own thoughts and viewpoints related to the topic.

Notes of Facilitation

- Arrange relevant pictures or posters showing different records related to poultry.
- Answer all the questions of the participant.
- Focus on ensuring pictorial as well as live presentation for learning.
- Nearby visit to Poultry farm will help the students to have better understanding.

Exercise**Key Solutions to PHB Exercises**

1. The records are necessary to study the production performance and check whether it meets the prescribed standards.
2. Records to be maintained are as follows :
(a) Building register, (b) Equipments register, (c) Feed and feed ingredients register, (d) Layer farm register, (e) Egg out turn register, (f) Broiler farm register, etc.
3. Inputs may be external or internal. Internal inputs are farming household, land , labour, management and capital.

Notes



Lined writing area for notes.





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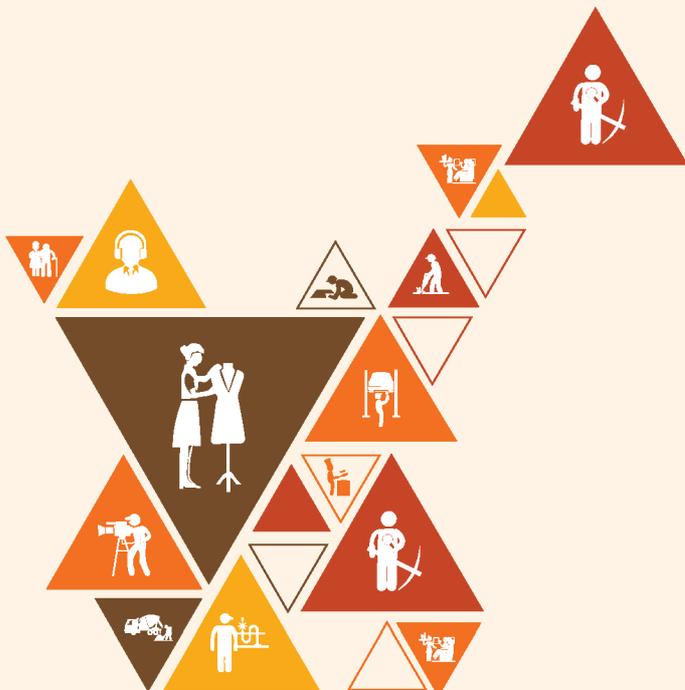
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12. Safety, Hygiene and Sanitation of a Poultry Farm

Unit 12.1 - Personal Hygiene Practices

Unit 12.2 - Cleanliness around the Workplace



AGR/N4316

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. List the measures to maintain health and safety at the work place
2. Describe the importance of hygiene at the farm
3. Discuss about importance of maintaining of farm equipment
4. Describe the environmental conditions required at farm
5. List the Precautionary measure while handling all the chemical substances
6. Explain the safety checklist and procedures followed by the organization
7. Discuss the bio-security protocols
8. Explain safe waste disposal methods
9. Explain physical, chemical and biological hazards and methods of prevention
10. Discuss different types of sanitizers used for storage area and equipment and the procedure to use
11. Explain precautionary measures of using and storing various chemicals at the workspace
12. Explain first aid treatment to be administered in case of emergencies
13. Explain the rules and regulations pertaining to poultry welfare and farming
14. Explain impact of not following health, safety and quality standards

UNIT 12.1: Personal Hygiene Practices

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Describe the process for maintaining good hygienic practices at workplace.
2. Explain the follow the workplace sanitization norms including distancing from sick people.

Resources to be Used

- Available objects such as a participant handbook, white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and before beginning the session, recapitulate the previous session discussions.

Ask

- Do you understand by the term “Hygiene”.?

Explain

Explain with the help of PHB :

- Workplace Hygiene
- Personal Hygiene
- Washroom Hygiene
- Security measures for the safety of employees and other

Activity

Purpose: To understand the need for personal hygiene

Methodology: Discussion for 15 minutes.

Expected Outcome: Participants have to list the external parts of the body that need to be kept clean and healthy, while explaining why it is needed.

- Put up the power point slide and start a discussion around the subject – what is personal hygiene and why it is needed.

Do

- During the activity, encourage the participants to ask questions and have active participation.
- At the end of the activity, clarify the doubts the participants.
- Provide your own expert advice and opinion regarding the topic.

Notes of Facilitation

- Conclude the unit by calling for volunteers to sum up one by one the learning on importance of sanitizing the workplace, the procedure to sanitize and disinfect work area.
- Encourage active participation and engagement from students, such as through group discussions and hands-on exercises.
- Provide a balance of both theoretical and practical information on the use PPEs, Cleaning disinfectants and other objects needed in this process.
- Get participants to open up their participant handbooks and solve the exercises given at the end of the unit. Discuss the answers.

Exercise**Key Solutions to PHB Exercises****A. Short questions**

1. One of the best ways to protect yourself from getting gastro or infectious diseases.
2. Wear face mask, frequently wash your hands, avoid touching your eyes, nose, etc.
3. Barrier face covering, surgical masks, N95 Respirators, etc.

B. Multiple Choice Questions

1. Personal Protective Equipment
2. 2019
3. Homemade face mask

C. Fill in the blanks-

1. Work environment
2. 2014
3. Before start the work

D. State True/False.

1. True
2. True
3. True

UNIT 12.2: Cleanliness Around the Workplace

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Describe the importance of workplace safety.
2. Explain the know abouts of PPE equipment/kit.
3. Explain cleaning, disinfection and pest control measures.
4. Describe the importance of drainage and waste disposal around workplace.
5. Describe the importance of labeling and risk assessment practices in workplace.

Resources to be Used

- Available objects such as participant handbook, white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and before beginning the session, recapitulate the previous session discussions.

Ask

- Have you ever heard about PPE?

Elaborate

- Inspection of Personal Protective Equipment (PPE).
- Cleaning and disinfection
- Pest Control system
- Drainage and Waste disposal

Activity



Purpose : To perceive the topic and time will be 20 minutes.

Methodology : Pen and paper

- Divide the participants into groups
- Ask the participants to label the chart paper “TIPS FOR CLEANLINESS”.
- Now discuss the points of every group.

Notes for Facilitation



- Encourage active participation and engagement from students, such as through group discussions and hands-on exercises.
- Provide a balance of both theoretical and practical information on the use PPEs, Cleaning disinfectants and other objects needed in this process.
- Get participants to open up their participant handbooks and solve the exercises given at the end of the unit.

Exercise



Key Solutions to PHB Exercises

A. Short Questions

1. Workplace Safety Inspection Checklists

- Employer posting of safety guidelines in a public and visible place
- Record-keeping of safety permits, occupational injuries and employee training records
- Safety and health program existence, consistency and participation
- Medical services and first aid availability, proximity and response

2. Methods of Disinfection Chemical Disinfectants

- Chlorine and chlorine compounds
- Formaldehyde
- Glutaraldehyde
- Hydrogen peroxide
- Iodophors

3. Risk happens across all the organizations whether it is public, private or semi government. The process of assessing, monitoring, and responding to the risks in order to reduce their impact is achieved through the implementation of a risk management framework. Risk management framework is a basic conceptual structure used to address the risks faced by an organization. Refer section 12.2.9 in PHB.

B. Multiple Choice Questions

1. Both of the above
2. All of the above
3. All of the above

C. Fill in the Blanks

1. To decrease
2. Soil and organic material

D. State whether True or False

1. True
2. True
3. True

Notes



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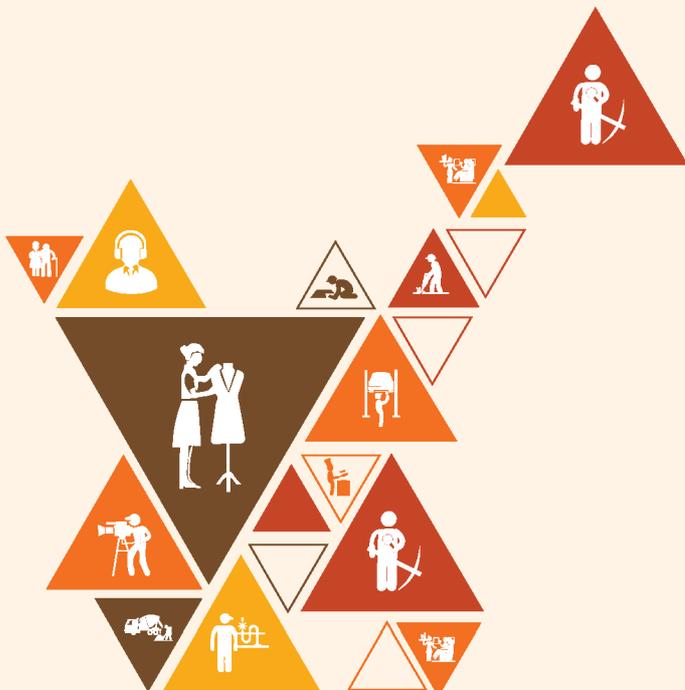
13. Entrepreneurship and Marketing for Poultry Farming

Unit 13.1 - Poultry Farming Economics and Finances

Unit 13.2 - Agri Enterprise Planning

Unit 13.3 - Agriculture Production Planning Process

Unit 13.4 - Post-Production and Marketing Management



AGR/N9908

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. Explain about poultry farming economics and finances
2. Discuss marketing of harvested products (meat and eggs)
3. List basic principles of keeping books of accounts
4. Discuss the market information management
5. Discuss income and expenditure statement
6. Explain Calculation of NPV, B:C Ratio and IRR
7. Discuss techno economic parameters related to project preparation
8. Discuss appropriate supply chain for the poultry meat and egg
9. Explain how to analyse the demand and supply of the relevant poultry produce in the market
10. Describe the process of identifying the target customers and assess their needs and expectations with respect to the quality and price of the produce.
11. Explain how to identify various types of agricultural entrepreneurship/ business opportunities.
12. Explain how to prepare a basic business plan for agricultural entrepreneurship/business activities.
13. State the appropriate sources of funding for the agricultural entrepreneurship/ businesses
14. State the relevant government schemes and programs
15. Explain the importance of ensuring compliance with the government structural reforms and framework, along with the applicable rules and regulations.
16. List various resources required for agricultural production
17. Describe the process of planning agricultural production and the use of relevant technologies to enhance production
18. Explain the importance of ensuring no cause adverse impact on the environment and produce during production
19. State the recommended practices to be followed for efficient input resource management.
20. Describe the process of optimising the production processes and output through the amalgamation of existing practices with smart technologies.
21. Explain the recommended sustainability practices to be followed during agricultural production to prevent and deal with deforestation, loss of biodiversity, soil degradation, etc.
22. Explain how to collect information related to the wholesale and retail price of agricultural produce.
23. Explain how to calculate the economics of the produce viz. production cost, price of the produce, B:C Ratio etc.
24. Describe pricing mechanism of various buyers of egg/meat and poultry products
25. Explain the relevant government schemes with the provision of subsidies/funds for the promotion of agricultural produce.

26. Describe the process of selecting appropriate marketing channels for marketing agricultural produce, and the applicable requirements and constraints.
27. List the relevant buyers of different types of agricultural produce.
28. Explain how to identify and manage various risks to production and post-production processes.
29. Explain how to undertake outreach programs to promote agricultural products and services, and expand agri-business.
30. Explain the 4Ps i.e., product, price, promotion, and place and 4As i.e., acceptability, affordability, accessibility, and awareness considered while preparing and executing a marketing plan.
31. Explain the use of the relevant digital services such as e-commerce, e-payments, electronic recordkeeping, etc.
32. Explain the importance of using efficient post-production logistics.
33. Explain the importance of maintaining various records accurately.

UNIT 13.1: Poultry Farming Economics and Finances

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain about poultry farming economics and finances
2. Discuss marketing of harvested products (meat and eggs)
3. List basic principles of keeping books of accounts
4. Discuss the market information management
5. Discuss income and expenditure statement
6. Explain Calculation of NPV, B:C Ratio and IRR
7. Discuss techno economic parameters related to project preparation
8. Discuss appropriate supply chain for the poultry meat and egg
9. Explain how to analyse the demand and supply of the relevant poultry produce in the market

Resources to be Used

- Available objects such as a white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Good day and welcome all the participants to the training session. Recall the key points of previous session discussion.

Elaborate

- Elaborate the following topics with the help of participant handbook, audio visual aids etc.
 - ✓ Poultry farming economics and finance
 - ✓ Economics of Poultry Broiler Farming

Notes for Facilitation



- Indicate potential source of information to each of the group.
- Assist all groups to systematically arrange collected information and analyze them- when required.
- Constantly motivate each student to participate. Arrange for award for group presentation, based on criteria such as quality, and relevancy of the content, group involvement, presentation skills, use of tools etc.
- Focus on ensuring pictorial presentation of learning. Let language proficiency be not any barrier at initial phase and once participants get confident enough to speak then they can be asked to present in English/Hindi only.
- Where possible, display specific work of groups within the classroom.

UNIT 13.2: Agri Enterprise Planning

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Analyse the demand and supply of the relevant agricultural produce in the market.
2. Examine the identification of the target customers.
3. Explain the planning process of various business opportunities.
4. Describe the government ecosystem for various business opportunities.
5. Explain the relevant government schemes with the provision of subsidies/funds for the promotion of agricultural produce.
6. Explain the basics of a business plan.
7. Describe the stakeholder coordination and procedural compliance in the business.

Resources to be Used

- Available objects such as a white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Elaborate

- Demand vs Supply
- Target Client's vs their Expectations
- Basic Business Plan
- Sources of Funds and Availability
- Government Schemes and Supporting Ecosystem

Team Activity

Purpose : To perceive the topics . The tentative time will be 1 hour.

Methodology : Quiz

Procedure :

- Divide the class into two groups.
- In turns ask the quiz questions to the groups.
- If the answer is incorrect pass the questions to other group.
- Share the answer if the groups are not able to answer.
- Congratulate the participants who answered correctly.

Do

- Encourage the students to actively participate in the activity.
- Encourage the non-participants to open up and speak up.
- Share your own thoughts and viewpoints related to the topic.

Notes for Facilitation

- Check out different Government schemes for small entrepreneurs. Share the information with the participants.
- You can tell them about the government websites like Start Up India, mudra.org.in etc.
- Discuss about various schemes and policies by the Government of India for entrepreneurs.

Exercise**Key Solutions to PHB Exercises****A. Short questions**

1. For every business, it is always important to understand the expectations of the consumers or target clients where the product is finally going to be sold. In order to understand target clients, imperative step is to decode the consumer behaviour.

Consumer behaviour refers to the behaviour that consumers display in searching for purchasing, using, evaluating and disposing of products and services that they expect will satisfy their needs.

2. Various components of a basic business plan

(a) Executive summary (b) Competitive analysis (c) Business description (d) Market analysis and strategy (e) Marketing and sales plan (f) Operating & Financial plan

An illustration of the business plan for banana fiber created handicrafts is as under: Waste to Health and Wealth Project

3. Various government schemes for promoting business in India :

Start Up India, Atal Innovation Mission (AIM), NewGen Innovation and Entrepreneurship, Dairy Entrepreneurship Development Scheme Promoted by NABARD, Venture Capital Finance Assistance (VCA) by SFAC, Aspire (MSME).

B. Multiple Choice Questions

1. Agri clinic and agribusiness centre
2. Marketing factors
3. All of the above

C. Fill in the Blanks

1. Road map
2. State to country
3. Supply

D. State whether True/False (T/F)

1. False
2. True

UNIT 13.3: Agriculture Production Planning Process

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Describe resource and natural resource management.
2. Explain the concept of sustainability for agricultural production.
3. Explain the importance of smart farming in modern day agriculture.
4. Explain how to calculate the economics of the produce viz. production cost, price of the produce, B:C Ratio etc.
5. Explain the recommended sustainability practices to be followed during agricultural production.

Resources to be Used

- Available objects such as a white board, duster, flip chart board/paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and appreciate participants for their participation. Recall the previous session outcomes and then proceed towards the session.

Elaborate

- Resource Management
- Natural Resource Management
- Sustainability Practices for Long Term Effects
- Economies of Produce
- Resource Planning for Successful Agricultural Production
- Amalgamation of Farming and Technological Innovations
- Recommended sustainable agricultural practices

Notes for Facilitation



- Help the participants to complete all the tasks involved in the participant hand book.
- Motivate the participants by involving them in sense of participation and the realization of the importance of their work.
- Tell them their important role for the farming community of the country and they will be service providers of a sector which is important to a country's economy, social and cultural well-being.

Exercise



Key Solutions to PHB Exercises

A. Short Questions

1. We need to manage the resources for agricultural operations because it provides a no. of advantages such as Sustainability, Enhanced biodiversity, Labour savings, Healthier soils, Increased yields, Reduced costs.
2. Gene editing technology, Technology for bringing compositional changes, etc.
3. Land serves as storage for water and nutrients required for plants and other living micro-macro-organisms. The demand for food, energy and other human requirements depends upon the preservation and improvement of the productivity of lands, which is not only inelastic but also heterogeneous in different parts and regions of the country with a definite set up, capabilities, suitability for different land resources.

B. Multiple Choice Questions

1. All of these
2. Industrial policies

C. Fill in the Blanks

1. Good resource management
2. Pradhan mantri garib kalyan package
3. Community – supported agriculture

D. State whether True/False (T/F)

1. True
2. True

UNIT 13.4: Post-Production and Marketing Management

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain about adequate storage facilities.
2. Describe the marketing price and related aspects.
3. Explain how to collect information related to the wholesale and retail price of agricultural produce.
4. Explain various marketing channels of distribution for agricultural produce.
5. Describe the marketing plan in association with 4Ps and 4As.
6. Explain the digital marketing process and related details.
7. Describe the stakeholder coordination and relationship management.
8. List the relevant buyers of different types of agricultural produce.
9. Explain how to identify and manage various risks to production and post-production processes.

Resources to be Used

- Available objects such as participant handbook, white board, duster, marker, flip chart, board, paper etc.
- Slides in power point presentation showing relevant images.

Say

- Greet the participants and recall the previous session learning outcomes.

Elaborate

- Importance of Storage
- Marketing price
- Marketing channels
- Marketing mix
- Digital services and Related applications of marketing
- Stakeholder Coordination and Relationship Management

Notes for Facilitation

- Help the participants to complete all the exercises mentioned in the participant handbook.
- Encourage participants of group discussion to ask questions so that they can clear their doubts (if any).

Exercise

Key Solutions to PHB Exercises

A. Short Questions

1. Understanding the factors by which the seller can influence the perceptions is very important for the companies in order to attract and retain customers. This can help them to determine the pricing strategy that will ensure their competitiveness in the market and thus, superior financial returns.
2. They allow the seamless exchange of information between your brand and its buyers, providing the opportunity to reach more people and expand awareness of your product and services.
3. Types of Channels
 - i. **Direct Channel (Zero Level):** The simplest and the shortest mode of distribution is direct distribution, where in the goods are made directly available by the manufacturers to customers, without involving any intermediary.
 - ii. **Indirect Channels:** When a manufacturer employs one or more intermediary to move goods from the point of production to the point of consumption, the distribution network is called indirect.
 - iii. **Manufacturer-Retailer Consumer (One Level Channel):** In this form of arrangement one intermediary i.e., retailers are used between the manufacturers and the customers.
 - iv. **Manufacturer-Wholesaler-Retailer-Consumer (Two Level Channel):** This is the most commonly adopted distribution network for most consumer goods like soaps, oils, clothes, rice, sugar and pulses.
 - v. **Manufacturer-Agent-Wholesaler-Retailer-Consumer (Three Level Channel):** In this case, manufactures use their own selling agents or brokers who connect them with wholesalers and then the retailers.
4. 4A : Acceptability, Affordability, Accessibility and Awareness
4P: Product, Price , Place and Promotion

B. Multiple Choice Questions

1. Platform
2. All of the above
3. Customer Relationship Management

C. Fill in the blanks.

1. Direct and indirect
2. Marketing

D. State True/False.

1. True
2. True

Notes



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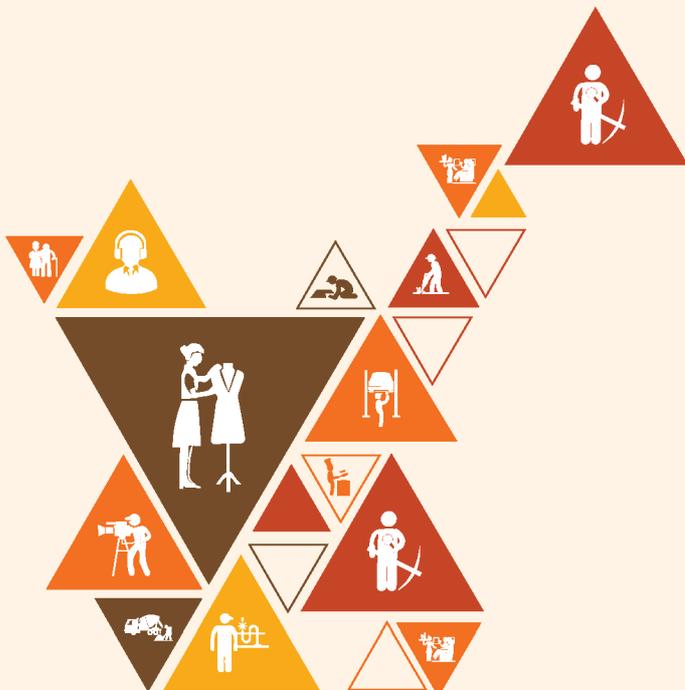
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14. Collective Farming/ Activity

Unit 14.1 - Grouping and Integration to Form Group Organisation



AGR/N9922

Key Learning Outcomes

After the completion of this module, the participant will be able to:

1. Discuss collective farming their importance and benefits
2. Explain about Producer Groups (PGs), Farmers Interest Groups (FIGs), Self-Help Groups (SHGs) and how these are created and also their importance and benefits
3. Explain how to connect and partner with other groups to expand the network and address common problems at a large scale
4. Discuss necessity of organising fundraising activities to support the functioning of the group
5. Explain the importance of setting the group objectives and deciding the group income-generating enterprises/ activities, methods of operation, benefits, etc.
6. Discuss the rules and regulations in the creation or participation in collective groups
7. Discuss the process of preparing for the PG/ FIG/ SHG operations such as fundraising, induction of SMEs, investing in ICT products.
8. Explain how to establish links with the local government at the panchayat level to obtain access to the relevant government development programmes and funds
9. Explain the process of commodity convergence with the relevant developmental programs
10. Describe the importance of attending the PG/FIG/ SHG meetings and training sessions
11. Explain the concept of group-owned bank for providing the required input for production to the member farmers
12. Explain the process of using the group's credit facility
13. Discuss about the concept and benefits of the practice of forward and backward linkages
14. Explain the value addition practices such as processing, packing, upgrading the quality

UNIT 14.1: Grouping and Integration to form Group Organizations

Unit Objectives

After the completion of this unit, the participant will be able to:

1. Explain the concept of holding meetings to form group organization
2. Explain the benefits of various capacity building exercises such as skill development and training programs
3. Explain the importance of planning optimum production to meet market and domestic food security needs
4. Describe the process of preparation of Producer Groups(PG)/Farmer Interest Groups(FIG)/Self Help Groups(SHG).
5. Explain the importance of defining the objectives of the group and the activities that the group can generate
6. Identify the problems faced by the farmers in the field operation and to solve them and explain the importance and process of conducting the field survey
7. Explain the concept of group owned bank to provide quality seeds, fertilizers, pesticides, tools and equipment to the member farmers
8. Explain the procedure for using the credit facility of the group
9. Explain various collective farming activities such as bulk purchase of inputs, large scale farming
10. Explain the concept and benefits of creating forward and backward linkages
11. Mention relevant value addition practices like processing, packing, quality upgradation etc.
12. Explain the benefits of joining commodity groups to address common problems in a big way
13. Explain the importance of determining the objectives of the group and the activities/activities that the group can generate.

Resources to be Used

- Available objects such as a participant handbook, white board, duster, flip chart, charts, paper etc.
- Slides in power point presentation showing relevant images.

Elaborate

With the help of participant handbook, other relevant learning materials, PPTs and other audio visual aids, elaborate the topics related to to this module such as:

- Concept of Grouping and Integration
- Aims and Objectives of the Schemes
- Formation and Promotion of Farmer Producer Organization
- New roles for agricultural extension in capacity building and backward and forward linkages
- Stages of establishment of farmer organisation
- Broad range of services and activities to be undertaken by the FPO
- Measures taken by the governments to promote SHG

Activity

This is the self-learning activity to enhance knowledge on government schemes for villages.

- Let the participants read about different schemes and its impact in their nearby areas through review papers. Content from be retrieved or facilitated from Research Gate, Academia.edu, google scholar etc.
- After that participants can prepare power point presentation and all can discuss together. This exercise can help participants to get in depth about the schemes.

Notes for Facilitation

- Help the participants to complete all the exercises mentioned in the participant handbook.
- Encourage participants for group discussion to ask questions so that they can clear their doubts (if any) .

Exercise

Key Solutions to PHB Exercises

1. SHG stands for Self Help Group and FPO stands for Farmer Producer Organisation.
2. (a) Supply of seed
(b) Fertilizer and machinery
(c) Market linkage
3. FPOs are generally mobilized by promoting institutions/resource agencies. Small farmers' Agribusiness Consortium is providing support for the promotion of FPOs.
4. NABARD, SFAC, Govt. departments provide financial or technical support to the Producer Organisation Promoting Institution for promotion and hand holding .
5. A good business plan is the engine that drives the FPO to the destination it has envisioned.

B. Fill in the blanks-

1. Adding value to the raw product and high engagement levels of participating members
2. Pradhan Mantri Kisan SAMPADA Yojana
3. ----
4. Concentrate
5. Aspirant

C. State whether True/False.

1. True
2. False
3. True
4. True
5. True

Notes



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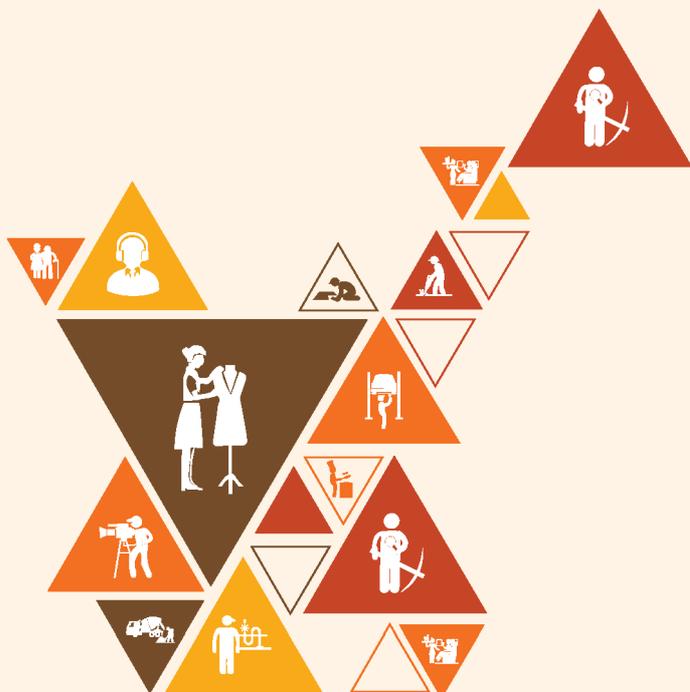


15. Employability Skills (60 Hours)

To access content on Employability Skills, click here:

<https://eskillindia.org/NewEmployability>

Scan the QR code below to access the ebook



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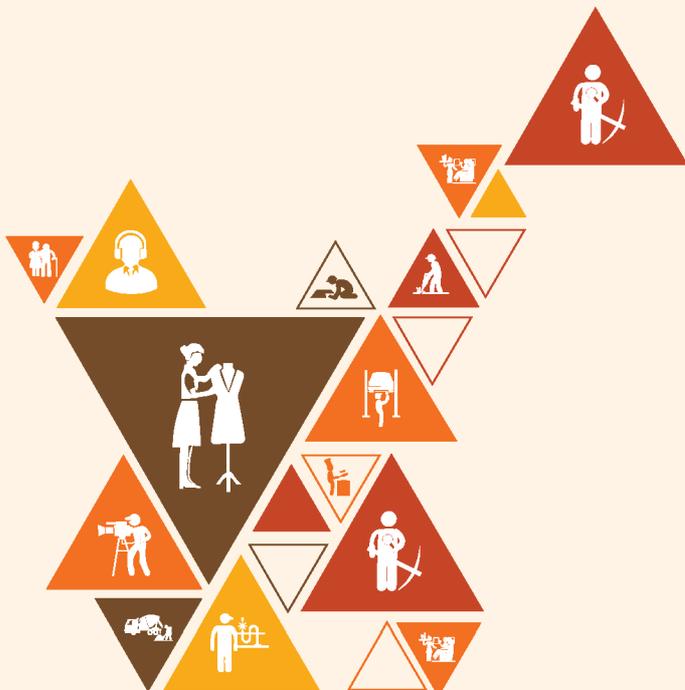
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16. Annexures

Annexure I - Training Delivery Plan

Annexure II- Assessment Criteria

Annexure III- QR Codes –Video Links



Annexure I

Training Delivery Plan

Training Delivery Plan			
Program Name:	Small Poultry Farmer		
Qualification Pack Name & Ref. ID	AGR/Q4306		
Version No.	3.0	Version Update Date	27/01/2022
Pre-requisites to Training (if any)	10th Class with 2 Years of experience relevant experience OR 10th Class (Pass and pursuing continuous regular schooling) OR 8th Class with 4 Years of experience relevant experience OR Certificate-NSQF (Level-3 with minimum education as 5th grade pass) with 2 Years of experience relevant experience		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Rear the Poultry Birds: Introduction to Poultry Farming, site selection, accommodation arrangements, handling of birds, feed and water • Maintain the health of birds: Birds diseases, symptoms, culling, vaccination etc. • Practice Harvest and Post-harvest: Harvesting of eggs, handling of eggs, post-harvest care, packing, transportation, marketing skills etc. • Become well versed with Environment Health and Safety: Well versed with health and safety measures in terms of personal safety and others as well. 		

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
1	Introduction to the role of a Small Poultry Farmer T: 05:00 (HH:MM)	1. Introduction	<ul style="list-style-type: none"> • Explain general discipline in the class room • Role of a Small Poultry Farmer • Status, scope and opportunities in the Poultry Industry. • The current demand for poultry industry. 	Bridge Module	Team activity: Stage presentation and group discussion	Participants handbook, Chairs posters	T: 2:00
		2. Origin, Domestication and history of poultry	<ul style="list-style-type: none"> • Discuss Origin, domestication and history of poultry • Different Poultry Breeds – Broiler and Layer farming • Explain the Purpose of raising different types of domestic birds for egg or meat production. 		Lecture, stage presentation, Demonstrations and group discussion	PHB, Projector, power point presentations, microphone, camera, round tables arranged in U shape for healthy discussion, white board, etc.	T: 3:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
2	Preparation of poultry house T: 05:00 P: 07:00 (HH:MM)	1. Preparation of Poultry House	<ul style="list-style-type: none"> • Discuss need for poultry house • Discuss various factors to identify a suitable location • Explain basic principles to be observed for layout • Discuss different types of poultry houses. • Describe Optimal environmental conditions required for rearing poultry birds 	AGR/N4327 PC2, KU5, GS1-GS6	Lecture, stage presentation, Demonstration, group presentations and discussion	PHB, Projector, system facilitating power point presentations, microphone, camera, round tables arranged in U shape for discussion, etc.	T: 2:30 P: 3:00
		2. Standards related to poultry farming	<ul style="list-style-type: none"> • Various inputs required for the establishment of the poultry farm • Discuss the standards of the poultry farm • Explain relevant legislation, standards, policies and procedures for preparation and management. • Discuss rules and regulations. 	AGR/N4327 PC3, KU3, GS1-GS6	Team activity: presentation and group discussion, Lecture, stage presentation, field visits	PHB, White board, duster, flip chart board/paper etc., PPT showing relevant images.	T: 2:30 P: 4:00
3	Maintenance of poultry house T: 05:00 P: 08:00 (HH:MM)	1. Equipments for poultry farm	<ul style="list-style-type: none"> • Various equipment required to maintaining the poultry farm optimally. • Importance of maintaining of farm equipments. • Discuss quantity and quality of materials and equipment • Discuss the techniques which promote health and safety of the birds as per SOP. 	AGR/N4327 PC4, PC6, KU7, GS1-GS6	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, Projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc., relevant PPT and audio-visual aids	T: 2:00 P: 2:00
		2. Handling of Poultry Birds-I	<ul style="list-style-type: none"> • Describe the optimal environmental conditions, clean water, feed, etc. that are required to promote health and safety • Explain different factors which are considered while monitoring the poultry shed. • Discuss the different seasonal management techniques to fight the climatic stress to the birds. 	AGR/N4327 PC11, KU7, GS1-GS6	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, Projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc., relevant PPT and audio-visual aids	T: 1:30 P: 3:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
		3. Handling of Poultry Birds-II	<ul style="list-style-type: none"> Explain about bio-security measures to be adopted in inter-farm transfer of feed, equipment and movement of man & material. Discuss the eco-friendly methods of waste disposal and their management Explain the Importance of following the health, hygiene, safety and quality standards of birds, consumers and the business. 	AGR/N4327 PC9,PC10, KU11, KU12, GS1-GS6	Lecture, activity, practical, role plays, group presentations and discussion, field visits etc.	PHB, Projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc., relevant PPT and audio-visual aids	T: 1:30 P: 3:00
4	Maintenance of the poultry shed to receive and manage the chicks/birds T: 05:00 P: 10:00 (HH:MM)	1. Maintenance of poultry shed-I	<ul style="list-style-type: none"> Explain types of housing areas suitable for the chicks/birds. Discuss appropriate stocking density as per the age of birds. Explain quantity & quality of materials and equipment . Explain the signs of stress, normal/ abnormal behaviour in birds and its alleviation methods 	AGR/N4328 PC2, PC3, KU3, KU4, KU6, GS1- GS6	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images	T: 2:00 P: 2:00
		2. Maintenance of poultry shed-II	<ul style="list-style-type: none"> Explain management practices to be adopted for different climatic condition Explain balanced feed and sanitized water to be provided to chicks/birds. 	AGR/N4327 PC11, KU7, GS1-GS6	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images	T: 1:00 P: 3:00
		3. Maintenance of poultry shed-III	<ul style="list-style-type: none"> Explain standard operating procedures while receiving and handling Explain the impact of not following the health, safety and quality standard. 	AGR/N4327 PC1, KU9, GS1-GS6	Lecture, stage presentation, role plays, group presentations and discussion	PHB, projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc.	T: 1:00 P: 2:00
		4. Litter Management	<ul style="list-style-type: none"> Explain waste disposal techniques for litter & discarded feed as per the industry guidelines and policies 	AGR/N4327 PC12, KU10, GS1-GS6	Lecture, stage presentation, group presentations and discussion,	PHB, projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc	T: 1:00 P: 3:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
5	Handling chicks/birds in poultry sheds T: 05:00 P:10:00 (HH:MM)	1. Monitor the health and well-being of birds -I	<ul style="list-style-type: none"> • Discuss behaviour of Poultry birds and safe handling of chicks/birds • Discuss different types of stress that occur in poultry birds and their management • Discuss health and hygiene requirements of poultry farm • Discuss appropriate stocking density as per the age of birds 	AGR/N4328 PC5, PC7, KU4, KU5, GS1-GS6	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images	T: 2:00 P: 2:00
		2. Monitor the health and well-being of birds -II	<ul style="list-style-type: none"> • Discuss materials (e.g. layering) and environmental conditions • Describe specific needs of special care birds • Explain the feed and drinking mechanisms for birds 	AGR/N4328 PC11, GS1-GS6	Lecture, stage presentation, group presentations and discussion	PHB, projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images	T:1:00 P:3:00
		3. Monitor the health and well-being of birds -III	<ul style="list-style-type: none"> • Explain about balanced diet given for poultry birds at different stages • Explain how to monitor and assess the condition of birds and to identify the signs of stress, normal/abnormal behaviour • Explain the process of raking 	AGR/N4328 PC12, KU6, GS1-GS6	Lecture, stage presentation, group presentations and discussion	PHB, projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images	T: 1:00 P: 2:00
		4. Brooding Management	<ul style="list-style-type: none"> • Explain the Industrial guidelines and standard operating procedure regarding the brooder management. • Explain the rules and regulations pertaining to poultry welfare and farming • Explain the proper waste disposal methods 	AGR/N4328 PC5, PC14, KU5, KU10, GS1-GS6	Lecture, stage presentation, group presentations and discussion	PHB, projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images	T:1:00 P: 3:00
6	Feeding and watering to poultry birds T: 10:00 P:20:00 (HH:MM)	1. Feed for poultry birds-I	<ul style="list-style-type: none"> • Explain the norms to be followed in receiving, the handling, distributions of the feed • Explain the parameter to check the quality of the feed . • Discuss the quantity and type of feed and water requirements of birds. 	AGR/N4329 PC1, KU2, KU3, GS1-GS6	Lecture, stage presentation, group presentations and discussion	PHB, projector, display screen, round table sitting arrangement, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images	T: 1:30 P: 3:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
		2. Feed for poultry birds-II	<ul style="list-style-type: none"> Describe the timing and amount of feed and water supply. Explain the quantity and type of feed supplements and water requirements of birds Discuss feed composition and resources required for poultry birds 	AGR/N4329 PC5, PC11, KU3, GS1- GS7	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, white board, duster, flip chart board/paper etc.,	T: 1:30 P: 3:00
		3. Feed for poultry birds-III	<ul style="list-style-type: none"> Explain calculation of quantity of feed to be delivered to poultry birds Describe basic nutritional requirements of birds, including water storage Discuss hygiene to be maintained before and after handling poultry feed Discuss the parameters to be considered while monitoring . 	AGR/N4329 PC6, PC7, KU5, KU6, GS1-GS7	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc.	T: 1:00 P: 3:00
		4. Management of feed and water-I	<ul style="list-style-type: none"> Discuss appropriate method of storage of feed to prevent moisture or fungal/pest infestation Explain the impact of storing feed and water in unclean & improper conditions on birds health and the business 	AGR/N4329 PC3, PC4, KU6, KU7, GS1-GS7	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 1:30 P: 3:00
		5. Management of feed and water-II	<ul style="list-style-type: none"> Explain remedial measures and management techniques . Explain importance of water supply to birds Describe the Feed Conversation Ratio of Poultry birds 	AGR/N4329 PC9, KU3, KU5, GS1- GS7	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 1:30 P: 3:00
		6. Management of feed and water-III	<ul style="list-style-type: none"> Principles of stock rotation Explain about correct methods for disposing of organic and inorganic feed waste 	AGR/N4329 PC13, KU6, KU8, GS1- GS7	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 1:00 P: 3:00
		7. Recap	<ul style="list-style-type: none"> Recapitulate complete module learning 	AGR/N4329 PC1-PC6, KU1-KU7, GS1-GS7	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, projector, display screen, white board, marker, duster, paper, pen PPT and relevant audio-visual aids	T: 2:00 P: 2:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
7	Maintaining health of poultry birds T: 10:00 P: 15:00 (HH:MM)	1. Health and well-being of birds-I	<ul style="list-style-type: none"> Explain importance the balanced diet for poultry birds Discuss biosecurity measures requirements in the poultry farm Discuss the importance of maintaining good health Explain importance the balanced diet for poultry birds 	AGR/N4330 PC1, KU17, GS1-GS6	Lecture, stage presentation, role plays, group presentations and discussion	PHB, White board, duster, flip chart board/paper etc., slides in power point presentation showing relevant images	T: 2:00 P: 3:00
		2. Health and well-being of birds-II	<ul style="list-style-type: none"> Discuss the importance of maintaining good health Discuss method of debarking and deworming of poultry birds and its importance Discuss about culling Explain physical appearance and movement of healthy birds 	AGR/N4330 PC4-PC6, KU10-KU12, GS1-GS6	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, White board, duster, flip chart board/paper etc., slides in power point presentation showing relevant images	T: 2:00 P: 3:00
		3. Treatment of diseases in poultry birds-I	<ul style="list-style-type: none"> Discuss medication process for treatment of problems of poultry birds Discuss ethno-veterinary practices adopted in the treatment of common diseases Different types of vaccines 	AGR/N4330 PC6, PC8, PC9, KU13, KU15, GS1- GS6	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, White board, duster, flip chart board/paper etc., slides in power point presentation showing relevant images	T: 2:00 P: 3:00
		4. Treatment of diseases in poultry birds-II	<ul style="list-style-type: none"> Discuss different diseases infecting poultry birds, symptoms and recommended vaccines and their schedule Explain different vaccination of poultry birds and their dose Discuss possible sources of contamination to the medication and medical equipment 	AGR/N4330 PC12, PC16, KU13, GS1- GS6	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 2:00 P: 3:00
		5. Basic recommended treatment to birds	<ul style="list-style-type: none"> Discuss different type of waste their management Discuss importance of maintaining record of the vaccination and medication details in the concerned register Discuss management techniques of poultry pest and parasites 	AGR/N4330 PC10,PC16, KU13,KU14, GS1-GS6	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 2:00 P: 3:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
8	Harvesting eggs and meat from the birds T: 05:00 P: 10:00 (HH:MM)	1. Carrying out harvesting activities-I	<ul style="list-style-type: none"> Discuss appropriate harvesting condition and requirements for harvesting of eggs and meat Discuss collection of egg, handling of egg and time of harvesting Factors impacting birds' stress and minimization procedure 	AGR/N4331 PC1-PC3, KU6-KU8, GS1-GS8	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, audio visual aids on worker's safety, White board, duster, flip chart board/paper etc., slides in power point presentation showing relevant images	T: 1:00 P: 2:00
		2. Carrying out harvesting activities-II	<ul style="list-style-type: none"> Describe necessary precautions to be taken for stress free harvesting Discuss the guidelines and importance of health, hygiene, safety and quality standards Discuss the quality check parameter of egg while collecting it 	AGR/N4331 PC2-PC4, KU4, KU8, GS1-GS8	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, pen/pencil, notebook, checklist for visit, white board, duster, flip chart board/paper etc., slides in power point presentation showing relevant images	T: 1:00 P: 2:00
		3. Harvesting of birds	<ul style="list-style-type: none"> Explain the harvesting period of the birds Explain the rules and regulations pertaining to poultry farming Explain quality signs for identifying the birds which are fit for harvesting Discuss pre-harvest activities and identification of appropriate time of harvesting 	AGR/N4331 PC2, PC3, KU6, KU8, GS1-GS8	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 1:00 P: 2:00
		4. Marketing	<ul style="list-style-type: none"> Explain different marketing channels for eggs/broiler birds Discuss to parameters to grade and store the eggs Discuss the various marketing strategies to sell the eggs in the market 	AGR/N4331 PC6, PC10, KU9, KU10, GS1-GS8	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 1:00 P: 2:00
		5. Recap	<ul style="list-style-type: none"> Recapitulate complete module learning 	AGR/N4331 PC1-PC10, KU2-KU10, GS1-GS8	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, projector, display screen, white board, marker, duster, paper, pen PPT and relevant audio-visual aids	T: 1:00 P: 2:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
9	Effective communication at workplace T: 05:00 P: 10:00 (HH:MM)	1. Coordination With Colleagues-I	<ul style="list-style-type: none"> Interpret and note down instructions. Carry out work related documentation 	AGR/N4331 KU10, GS1-GS8	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, pen/pencil, notebook, checklist for visit, white board, duster, flip chart board/paper etc., slides in power point presentation showing relevant images	T: 1:30 P: 3:00
		2. Coordination With Colleagues-II	<ul style="list-style-type: none"> Demonstrate and Assign the work to an apprentice Monitor and report the progress and performance of an apprentice to senior 	AGR/N4331 KU10, GS1-GS8	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, pen/pencil, notebook, checklist for visit, white board, duster, flip chart board/paper etc., slides in power point presentation showing relevant images	T: 1:30 P: 3:00
		3. Coordination With Colleagues-III	<ul style="list-style-type: none"> Explain safety procedure and use of PPE to the apprentice. Maintain Conducive environment and equal participation for all the genders and Persons with Disabilities (PwD) at the workplace. 	AGR/N4331 KU10, GS1-GS8	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, pen/pencil, notebook, checklist for visit, white board, duster, flip chart board/paper etc., slides in power point presentation showing relevant images	T: 1:00 P: 2:00
		4. Recap	<ul style="list-style-type: none"> Recapitulate complete module learning 	AGR/N4331 KU10, GS1-GS8	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, projector, display screen, white board, marker, duster, paper, pen PPT and relevant audio-visual aids	T: 1:00 P: 2:00
10	Sanitization and biosecurity measures for the replacement stock T: 10:00 P: 20:00 (HH:MM)	1. Disinfectants and disinfection of poultry house-I	<ul style="list-style-type: none"> Explain the method and schedule of post-harvest clean out Discuss farm decontamination 	AGR/N4332 PC1, PC2, KU3, GS1-GS7	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 1:00 P: 3:00
		2. Disinfectants and disinfection of poultry house-II	<ul style="list-style-type: none"> Explain procedures of maintaining and sanitizing feed and water equipment Describe safe use of disinfectants Explain the importance of PPE during cleaning and disinfection 	AGR/N4332 PC6, PC15, KU4, KU5, GS1-GS7	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 2:00 P: 3:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
		3. Biosecurity -I	<ul style="list-style-type: none"> Explain about structural and operational biosecurity norms Explain the procedure for dead bird disposal 	AGR/N4332 PC16, KU5, KU6, GS1-GS7	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images of process towards quality and safety of produce	T: 2 :00 P: 3:00
		4. Biosecurity -II	<ul style="list-style-type: none"> Disinfectants used at farm and their methods of application Discuss different cleaning procedures 	AGR/N4332 PC4, KU4, GS1-GS7	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images of process towards quality and safety of produce, audio-visual aid	T: 1:30 P: 2:00
		5. Waste management-I	<ul style="list-style-type: none"> Explain importance of signage boards and entry restrictions Explain the rules and regulations pertaining to poultry welfare and farming 	AGR/N4332 PC16, KU6, GS1-GS7	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 1:30 P: 3:00
		6. Waste management-II	<ul style="list-style-type: none"> Explain impact of not following health, safety and quality standards Explain safe waste disposal methods for litter, discarded feed, dead birds and other poultry waste 	AGR/N4332 PC15, KU6, GS1-GS7	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 1:00 P: 2:00
		7. Recap	<ul style="list-style-type: none"> Recapitulate complete module learning 	AGR/N4332 PC1-PC16, KU1-KU7, GS1-GS7	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, projector, display screen, white board, marker, duster, paper, pen PPT and relevant audio-visual aids	T: 1:00 P: 4:00
11	Documentation and record keeping T: 10:00 P: 20:00 (HH:MM)	1. Documentation and record keeping-I	<ul style="list-style-type: none"> Explain the importance of documentation and maintenance of accurate and complete Discuss different types of record to keep for poultry 	AGR/N4334 PC1, PC2, KU3, GS1-GS5	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 2:00 P: 4:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
		2. Documentation and record keeping-II	<ul style="list-style-type: none"> Discuss methods of documentation and record Discuss record keeping system used in poultry production 	AGR/N4334 PC1-PC4, KU3, GS1-GS5	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images of process towards quality and safety of produce	T: 2:00 P: 4:00
		3. Documentation and record keeping-III	<ul style="list-style-type: none"> Discuss about methods to track back the record from finished product to raw material. 	AGR/N4334 PC1-PC4, KU3, GS1-GS5	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images of process towards quality and safety of produce, audio-visual aid	T: 2:00 P: 4:00
		4. Record keeping	<ul style="list-style-type: none"> Explain the methods to calculate revenue, profit, input-output ratios, B:C ratio for the better decision making and Ascertainment of the business 	AGR/N4334 PC5, KU4, GS1-GS5	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 2:00 P: 4:00
		5. Recap	<ul style="list-style-type: none"> Recapitulate complete module learning 	AGR/N4334 PC1- PC5, KU3, KU4, GS1-GS5	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, projector, display screen, white board, marker, duster, paper, pen PPT and relevant audio-visual aids	T: 2:00 P: 4:00
12	Safety, hygiene and sanitation of a poultry farm T: 15:00 P: 15:00 (HH:MM)	1. Personal hygiene practices -I	<ul style="list-style-type: none"> Describe the process for maintaining good hygienic practices at workplace. 	AGR/N4316 PC1, PC2, KU3, GS1-GS8	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 2:00 P: 2:00
		2. Personal hygiene practices -II	<ul style="list-style-type: none"> Explain the follow the workplace sanitization norms including distancing from sick people 	AGR/N4316 PC3, KU5, GS1-GS8	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 3:00 P: 3:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
		3. Cleanliness around the workplace-I	<ul style="list-style-type: none"> Describe the importance of workplace safety. Explain the know abouts of PPE equipment/kit. 	AGR/N4316 PC1-PC3, KU3, KU5, GS1-GS8	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images of process towards quality and safety of produce	T: 3:00 P: 3:00
		4. Cleanliness around the workplace-II	<ul style="list-style-type: none"> Explain cleaning, disinfection and pest control measures. 	AGR/N4316 PC4, KU7, GS1-GS8	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images of process towards quality and safety of produce, audio-visual aid	T: 2:00 P: 2:00
		5. Cleanliness around the workplace-III	<ul style="list-style-type: none"> Describe the importance of drainage and waste disposal around workplace Describe the importance of labeling and risk assessment practices in workplace. 	AGR/N4316 PC9, KU9, GS1-GS8	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 2:00 P: 2:00
		6. Recap	<ul style="list-style-type: none"> Recapitulate complete module learning 	AGR/N4316 PC1-PC9, KU3-KU9, GS1-GS8	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, projector, display screen, white board, marker, duster, paper, pen PPT and relevant audio-visual aids	T: 3:00 P: 3:00
13	Entrepreneurship and marketing for poultry farming T: 20:00 P: 10:00 (HH:MM)	1. Poultry farming economics and finances -I	<ul style="list-style-type: none"> Explain about poultry farming economics and finances Discuss marketing of harvested products (meat and eggs) Basic principles of keeping books of accounts 	AGR/N9908 PC1, KU1, GS1-GS7	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 2:00 P: 1:00
		2. Poultry farming economics and finances -II	<ul style="list-style-type: none"> Discuss the market information management Discuss income and expenditure statement Explain Calculation of NPV, B:C Ratio and IRR 	AGR/N9908 PC		PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 2:00 P: 2:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
		3. Poultry farming economics and finances -III	<ul style="list-style-type: none"> Discuss techno economic parameters related to project preparation Explain how to analyse the demand and supply of the relevant poultry produce in the market 	AGR/N9908 PC3, KU3, GS1-GS8	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images of process towards quality and safety of produce	T: 2:00 P: 2:00
		4. Agri Enterprise Planning-I	<ul style="list-style-type: none"> Examine the identification of the target customers. Explain the planning process of various business opportunities. Describe the government ecosystem for various business opportunities 	AGR/N9908 PC2, PC3, KU2, KU3, GS1-GS8	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, white board, duster, flip chart board/paper etc., Slides in power point presentation showing relevant images of process towards quality and safety of produce, audio-visual aid	T: 2:00 P: 1:00
		5. Agri Enterprise Planning-II	<ul style="list-style-type: none"> Explain the relevant government schemes for the promotion of agricultural produce. Explain the basics of a business plan. 	AGR/N9908 PC5, PC6, KU4, KU7, GS1-GS8	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 2:00 P: 1:00
		6. Agriculture Production Planning Process	<ul style="list-style-type: none"> Describe resource and natural resource management. Explain the concept of sustainability for agricultural production. Explain the recommended sustainability practices 	AGR/N9908 PC3, KU9, GS1-GS8	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 3:00 P: 1:00
		7. Post-Production and Marketing Management	<ul style="list-style-type: none"> Explain about adequate storage facilities. Describe the marketing price and related aspects Describe the marketing plan in association with 4Ps and 4As Explain the digital marketing process and related details. 	AGR/N9908 PC20, PC23, KU21, GS1-GS8	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 3:00 P: 1:00
		8. Recap	<ul style="list-style-type: none"> Recapitulate complete module learning 	AGR/N9908 PC1-PC6, PC20, PC23, KU2-KU9, KU21, GS1-GS8	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, projector, display screen, white board, marker, duster, paper, pen PPT and relevant audio-visual aids	T: 4:00 P: 1:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
14	Collective farming/ activity T: 10:00 P: 20:00 (HH:MM)	1. Grouping and integration to form group organizations-I	<ul style="list-style-type: none"> Explain the concept of holding meetings to form group organization Explain the benefits of various capacity building exercises such as skill development and training programs Explain the importance of planning optimum production to meet market and domestic food security needs 	AGR/N9922 PC9, PC11, KU4, KU7, GS1-GS7	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, pen/pencil, notebook, checklist for visit, white board, duster, flip chart board/paper etc., slides in power point presentation showing relevant images	T: 2:00 P: 4:00
		2. Grouping and integration to form group organizations-II	<ul style="list-style-type: none"> Describe the process of preparation of PG/FIG/SHG. Explain the objectives of the group and the activities . Identify the problems faced by the farmers in the field operation and to solve them 	AGR/N9922 PC2, PC21, KU1, KU8, GS1-GS7	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, pen/pencil, notebook, checklist for visit, white board, duster, flip chart board/paper etc., slides in power point presentation showing relevant images	T: 2:00 P: 4:00
		3. Grouping and integration to form group organizations-III	<ul style="list-style-type: none"> Explain the concept of provide quality seeds, fertilizers, pesticides, tools and equipment Explain the procedure for using the credit facility of the group Explain various collective farming activities 	AGR/N9922 PC14, PC15, KU9, KU10, GS1-GS7	Lecture, stage presentation, role plays, group presentations and discussion, field visits	PHB, pen/pencil, notebook, checklist for visit, white board, duster, flip chart board/paper etc., slides in power point presentation showing relevant images	T: 2:00 P: 4:00
		4. Grouping and integration to form group organizations-IV	<ul style="list-style-type: none"> Explain the concept and benefits of creating forward and backward linkages Explain the benefits of joining commodity groups to address common problems in a big way 	AGR/N9922 PC18, PC21, KU14, GS1- GS7	Lecture, stage presentation, group presentations and discussion	PHB, white board, duster, flip chart board/paper, slides in powerpoint presentation with relevant images, etc	T: 2:00 P: 4:00
		5. Recap	<ul style="list-style-type: none"> Recapitulate complete module learning 	AGR/N9922 PC2-PC11, KU1-KU15, GS1-GS7	Lecture, activities, role plays, group presentations and discussion, field visits, demonstrations etc.	PHB, projector, display screen, white board, marker, duster, paper, pen PPT and relevant audio-visual aids	T: 2:00 P: 4:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
15.	Employability Skills (60hrs)	Introduction to Employability Skills	<ul style="list-style-type: none"> Describe importance of Employability Skills Prepare a note on different industries, trends, required skills 	DGT/VSQ /N0102	Classroom lecture, Team Activity	White-Board and, Markers, Chart Paper and Sketch pens, LCD Projector	1:30
		Constitutional Values: Citizenship	<ul style="list-style-type: none"> Detail the principles of constitution of India Identify the various environmentally sustainable practices 		Classroom lecture, Team Activity	Laptop, PPT, White board Markers, note pad, pen etc.	1:30
		Becoming a Professional in the 21st Century	<ul style="list-style-type: none"> Discuss relevant 21st century skills required for employment Practice critical thinking and decision making skills 		Classroom lecture, Team Activity	Laptop, PPT, White board Markers, note pad, pen etc.	2:30
		Basic Skills-I	<ul style="list-style-type: none"> Read English text with appropriate articulation Practice basic English words, sentences, punctuation 		Classroom lecture, Team Activity, Role play, video session	Laptop, PPT, White board Markers, note pad, pen etc.	5:00
		Basic Skills-II	<ul style="list-style-type: none"> Demonstrate active listening and reading skills 				
		Career Development and Goal Setting	<ul style="list-style-type: none"> Identify well-defined short- and long-term goals Explain how to build a career pathway Conduct job market research Discuss how to set career goals. 	DGT/VSQ /N0102	Class room lecture, discussion, demonstration, practical	Laptop, PPT, White board Markers, note pad, pen etc.	2:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
		Communication Skills	<ul style="list-style-type: none"> Explain the importance of communication at workplace Demonstrate effective communication strategies Demonstrate how to communicate effectively using verbal and nonverbal communication 	DGT/VSQ /N0102	Class room lecture, discussion, demonstration, practical	Laptop, PPT, White board Markers, note pad, pen, audio visual aids etc.	5:00
		Diversity and Inclusion	<ul style="list-style-type: none"> Explain the need of diversity at workplace Identify the various PwD policies applicable at workplace Discuss the significance of the POSH Act 	DGT/VSQ /N0102	Class room lecture, Inter-active discussion	Laptop, PPT, White board Markers, note pad, pen, audio visual aids etc.	2:30
		Financial and Legal Literacy	<ul style="list-style-type: none"> Discuss various financial institutions, products, and services Explain the common components of salary such as Basic, PF, Allowances (HRA, TA, DA, etc.), tax deductions 	DGT/VSQ /N0102	Class room lecture, demonstrations, group discussion, practical	Laptop, PPT, White board Markers, note pad, pen, audio visual aids etc.	5:00
		Essential Digital Skills-I	<ul style="list-style-type: none"> Detail the use and features of various MS Office tools, like MS Word, MS Excel, MS PowerPoint, etc. Demonstrate how to operate digital devices Create an e-mail id and follow e- mail etiquette to exchange e -mails Describe the role of digital technology in day-to-day life and the workplace 	DGT/VSQ /N0102	Class room lecture, discussion, Demonstration, practical, learning by doing	Laptop, PPT, White board Markers, note pad, pen, audio visual aids etc.	6:00
		Essential Digital Skills-II	<ul style="list-style-type: none"> Practice Digital skills 		Demonstration, practical, learning by doing		4:00

S.No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools / Aids	Duration
		Entrepreneurship	<ul style="list-style-type: none"> Describe the types of entrepreneurship and enterprises Describe the 4Ps Of Marketing- Product, Price, Place and Promotion and Apply the mas Per requirement Create a sample Business plan, For the selected business 	DGT/VSQ /N0102	Class room lecture, discussion, Demonstration, practical	Laptop, PPT, White board Markers, note pad, pen, audio visual aids etc.	7:00
		Customer Service	<ul style="list-style-type: none"> Identify types of customers and how to deal with them Identify methods to get customer feedback and how to implement them Explain various tools used to collect customer feedback Discuss the significance of maintaining hygiene and dressing appropriately 	DGT/VSQ /N0102	Class room lecture, activity, role play, video session	Laptop, PPT, White board Markers, note pad, pen, audio visual aids etc.	5:00
		Apprenticeships and Jobs	<ul style="list-style-type: none"> Practice personal grooming strategies Illustrate the use of online platforms for job hunting Detail the concept of Apprenticeship Demonstrate how to enroll for Apprenticeship programs. Draft a professional Curriculum Vitae (CV) Role play a mock interview 	DGT/VSQ /N0102			8:00

Annexure II

Assessment Criteria

CRITERIA FOR ASSESSMENT OF TRAINEES

(For Updated 'Assessment Criteria', please refer to Qualification Pack of this Job role available at <https://www.nqr.gov.in/>)

Assessment Criteria for ASCI- Small Poultry Farmer	
Job Role	Small Poultry Farmer
Qualification Pack	AGR/Q4306
Sector Skill Council	Agriculture

S.No.	Guidelines for Assessment
1.	Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2.	The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3.	Assessment will be conducted for all compulsory NOS, as well as the selected elective NOS/set of NOS.
4.	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5.	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria.
6.	To pass the Qualification Pack , every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
7.	In case of <i>unsuccessful completion</i> , the trainee may seek reassessment on the Qualification Pack.

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
AGR/N4327. Prepare and maintain housing for broiler/layer birds	30	40	0	30	100	5
AGR/N4328. Prepare the poultry shed to receive and manage the chicks/birds	30	35	0	35	100	10
AGR/N4329. Maintain the supply of feed and water for poultry birds	30	45	0	25	100	15
AGR/N4330. Maintain health of birds at poultry farm	30	35	0	35	100	20
AGR/N4331. Carry out collection of eggs and lifting of broiler birds for market	30	40	0	30	100	10
AGR/N4332. Undertake sanitization and biosecurity measures for the replacement stock	30	40	-	30	100	10
AGR/N4334. Carry out documentation and record-keeping at a small poultry farm	30	40	-	30	100	5
AGR/N4316. Ensure safety, hygiene and sanitation of poultry farm	30	35	-	35	100	10
AGR/N9908. Undertake basic entrepreneurial activities for small enterprise	30	40	-	30	100	5
AGR/N9922. Engage in collective farming/activity	30	40	-	30	100	5
DGT/VSQ/N0102. Employability Skills (60 Hours)	20	30	-	-	50	5
Total	320	420	0	310	1050	100

Annexure-III

QR Codes –Video Links

Chapter No.	Unit No.	Topic	QR Code Links	QR code (s)
Chapter -1 to 6 All Chapter	Unit 1.1 - 6.2	<ul style="list-style-type: none"> • Poultry Overview • Accommodation • Handling • Feed and Water • Health and Treatment • Harvesting Activities • Post-Harvest Cleanliness • Record Keeping • Safety and Hygiene 	https://www.youtube.com/watch?v=cpiilPkhfMwE&list=PLz3PcLxIPV8MVVGBWqLEMVrS83FyuNgsa&index=10	 Poultry Farming
		Integrated Farming of Chicken with Moringa	https://www.youtube.com/watch?v=bedu7gZEKik	 Integrated Poultry Farming
Chapter -4 Maintenance of Poultry Shed for Receive and Management of Chicks/Birds	Unit 4.1 - Maintenance of Poultry Shed	Poultry Shed Design and Handling	https://www.youtube.com/watch?v=ICajbarVJrl	 Poultry Shed Design and Handling
Chapter -5 Handling of Chicks/Birds in Poultry Shed	Unit 5.1 - Monitor the Health and Well-being of Birds			
Chapter -6 Feeding and Watering Poultry Birds	Unit 6.1 - Feed for Poultry Birds	Feed and Water	https://www.youtube.com/watch?v=oURuxcDJWwl	 Feed and Water
	Unit 6.2 - Management of Feed and Water			
Chapter -7 Maintaining the Health of Poultry Birds	Unit 7.1 - Health and Well-being of Birds	Bio security in Poultry Farm	https://www.youtube.com/watch?v=rGbC0jAP6Mg	 Bio security in Poultry Farm
	Unit 7.2 - Treatment of Diseases in Poultry Birds	Annadata Poultry Vaccination Methods	https://www.youtube.com/watch?v=eLvIaNGBxpA	 Annadata Poultry Vaccination Methods
Chapter - 8 Harvesting Eggs and Meats from Birds	Unit 8.2 - Harvesting of Birds	Biosecurity in Poultry Farm	https://www.youtube.com/watch?v=rGbC0jAP6Mg	 Biosecurity in Poultry Farm

Chapter No.	Unit No.	Topic	QR Code Links	QR code (s)
Chapter -10 Sanitation and Biosecurity Measures for Replacement Stock	Unit 10.1 - Disinfectants and Disinfection of Poultry House	Cleaning and disinfection of poultry farm	https://www.youtube.com/watch?v=8LaJT0UzeQg	 Cleaning and disinfection of poultry farm
	Unit 10.2 - Biosecurity	Biosecurity in Poultry Farm	https://youtube.com/watch?v=rGbCOjAP6Mg	 Biosecurity in Poultry Farm
Chapter -13 Entrepreneurship and Marketing for Poultry Farming	Unit 13.1 - Poultry Farming Economics and Finances	Integrated Farming of Chicken with Moringa, ICAR-DPR	https://youtube.com/watch?v=bedu7gZEKik	 Integrated Farming of Chicken with Moringa, ICAR-DPR



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