



# Model Curriculum

**QP Name: Small Poultry Farmer**

**QP Code: AGR/Q4306**

**QP Version: 4.0**

**NSQF Level: 4**

**Model Curriculum Version: 3.0**

Agriculture Skill Council of India || Unit No. 101, First Floor,  
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## Training Parameters

<b>Sector</b>	Agriculture
<b>Sub-Sector</b>	Poultry
<b>Occupation</b>	Poultry Farming
<b>Country</b>	India
<b>NSQF Level</b>	4
<b>Aligned to NCO/ISCO/ISIC Code</b>	NCO-2015/6122.0101
<b>Minimum Educational Qualification and Experience</b>	12 <sup>th</sup> or equivalent OR 10th Class Pass with 3 years of relevant experience in Agriculture and allied sectors OR Previous NSQF Level 3.5 with 1.5 years of relevant experience in Agriculture and allied sectors OR Previous NSQF Level 3 with 3 years of relevant experience in Agriculture and allied sectors
<b>Pre-Requisite License or Training</b>	N/A
<b>Minimum Age</b>	NA
<b>Last Reviewed On</b>	18-02-2025
<b>Next Review Date</b>	18-02-2028
<b>NSQC Approval Date</b>	18-02-2025
<b>QP Version</b>	4.0
<b>Model Curriculum Creation Date</b>	18-02-2025
<b>Model Curriculum Valid Up to Date</b>	18-02-2028
<b>Model Curriculum Version</b>	3.0
<b>Minimum Duration of the Course</b>	390 Hours
<b>Maximum Duration of the Course</b>	390 Hours

## Program Overview

This section summarizes the end objectives of the program along with its duration.

### Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

- 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.

### Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
<b>AGR/N4327: Prepare and maintain housing for broiler/layer birds</b> NOS Version No. 3.0 NSQF Level 4	15:00	15:00	0:00	0:00	30:00
Module 1: Introduction to the role of a Backyard/ Small Poultry Farmer	05:00	0:00	0:00	0:00	05:00
Module 2: Preparation of poultry house	05:00	07:00	0:00	0:00	12:00
Module 3: Maintenance of poultry house	05:00	08:00	0:00	0:00	13:00
<b>AGR/N4328: Prepare the poultry shed to receive and manage the chicks/birds</b> NOS Version No. 3.0 NSQF Level 4	10:00	20:00	0:00	0:00	30:00
Module 4: Maintenance of the poultry shed to receive and manage the chicks/birds	05:00	10:00	0:00	0:00	15:00
Module 5: Handling chicks/birds in poultry sheds	05:00	10:00	0:00	0:00	15:00

<b>AGR/N4329: Maintain the supply of feed and water for poultry birds</b> NOS Version No. 3.0 NSQF Level 4	10:00	20:00	0:00	0:00	30:00
Module 6: Feeding and watering to poultry birds	10:00	20:00	0:00	0:00	30:00
<b>AGR/N4330: Maintain health of birds at poultry farm</b> NOS Version No. 3.0 NSQF Level 4	10:00	20:00	0:00	0:00	30:00
Module 7: Maintaining health of poultry birds	10:00	20:00	0:00	0:00	30:00
<b>AGR/N4331: Carry out collection of eggs and lifting of broiler birds for market</b> NOS Version No. 4.0 NSQF Level 4	10:00	20:00	0:00	0:00	30:00
Module 8: Harvesting eggs and meat from the birds	05:00	10:00	0:00	0:00	15:00
<b>AGR/N4332: Undertake sanitization and biosecurity measures for the replacement stock</b> NOS Version No. 3.0 NSQF Level 4	10:00	20:00	0:00	0:00	30:00
Module 9: Sanitization and biosecurity measures for the replacement stock	10:00	20:00	0:00	0:00	30:00
<b>AGR/N4334: Carry out documentation and record-keeping at a small poultry farm</b> NOS Version No. 3.0 NSQF Level 4	10:00	20:00	0:00	0:00	30:00
Module 10: Documentation and record keeping	10:00	20:00	0:00	0:00	30:00
<b>AGR/N4316: Ensure safety, hygiene and sanitation of poultry farm</b> NOS Version No. 2.0 NSQF Level 4	15:00	15:00	0:00	0:00	30:00
Module 11: Safety, hygiene and sanitation of a Poultry farm	15:00	15:00	0:00	0:00	30:00

<b>AGR/N9908: Undertake basic entrepreneurial activities for small enterprise NOS Version No. 4.0 NSQF Level 4</b>	<b>20:00</b>	<b>10:00</b>	<b>0:00</b>	<b>0:00</b>	<b>30:00</b>
Module 12: Entrepreneurship and marketing for poultry farming	20:00	10:00	0:00	0:00	30:00
<b>AGR/N9922: Engage in collective farming/activity NOS Version. 2.0 NSQF Level 4</b>	<b>10:00</b>	<b>20:00</b>	<b>0:00</b>	<b>0:00</b>	<b>30:00</b>
Module 13: Collective farming/ activity	10:00	20:00	0:00	0:00	30:00
<b>DGT/VSQ/N0102 Employability Skills NOS Version-1.0 NSQF Level-4</b>	<b>60:00</b>	<b>00:00</b>	<b>0:00</b>	<b>0:00</b>	<b>60:00</b>
Module 14: Employability Skills	60:00	00:00	0:00	0:00	60:00
<b>Total Duration</b>	<b>180:00</b>	<b>180:00</b>	<b>30:00</b>	<b>0:00</b>	<b>390:00</b>

## Module Details

### Module 1: Introduction to the role of a Backyard/ Small Poultry Farmer

*Mapped to NOS AGR/N4327 v3.0*

#### Terminal Outcomes:

- Discuss the role and responsibilities of a Small Poultry Farmer
- Explain the scope and opportunity of poultry farming

Duration: 05:00	Duration: 00:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>● Explain general discipline in the classroom (Do's &amp; Don'ts)</li> <li>● Discuss the role of a Small Poultry Farmer and the progression pathways</li> <li>● Describe the status, scope and opportunities in the Poultry Industry</li> <li>● Discuss Origin, domestication, and history of poultry</li> <li>● List different Poultry Breeds – Broiler and Layer farming</li> <li>● Explain the Purpose of raising different types of domestic birds for egg or meat production.</li> <li>● Explain the current demand for poultry industry</li> </ul>	
<b>Classroom Aids:</b>	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop	
<b>Tools, Equipment and Other Requirements</b>	
NA	

## Module 2: Preparation of poultry house

Mapped to NOS AGR/N4327 v3.0

### Terminal Outcomes:

- Explain need for poultry house and factors affecting selection of location for poultry house
- Show suitable poultry layout
- Explain different type and system of poultry house
- Explain optimal condition required for rearing poultry bird

Duration: 05:00	Duration: 07:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>● Discuss need for poultry house as per industry standard</li> <li>● Discuss various factors that must be considered while identifying a suitable location with optimum size and space for the construction of poultry house</li> <li>● Explain basic principles to be observed for layout of the poultry farm as per farm size</li> <li>● Discuss different types of poultry houses</li> <li>● Describe Optimal environmental conditions required for rearing poultry birds</li> <li>● Explain classification Poultry Housing system and also their advantages and disadvantages</li> <li>● List the various inputs required for the establishment of the poultry farm</li> <li>● Explain the proper way to identify and establish the poultry farm with different types of poultry housing.</li> <li>● Discuss the standards of the poultry farm, adhere to industry standard.</li> <li>● Explain relevant legislation, standards, policies and procedures for preparation and management of poultry shed.</li> <li>● Discuss rules and regulations pertaining to poultry welfare and farming</li> <li>● Discuss the importance of space for the birds to move and grow comfortably, following animal welfare standards</li> </ul>	<ul style="list-style-type: none"> <li>● Demonstrate layout of the poultry farm as per farm size</li> <li>● Demonstrate the procedure in carrying out micro-planning of activities for poultry business</li> <li>● Show different types of poultry houses</li> <li>● Demonstrate different systems of Poultry Housing</li> <li>● Demonstrate nesting units for the egg-layers to facilitate proper hatching</li> <li>● Show how to prepare the shed for poultry birds – ventilation opening, feeder, water, moisture level, dust</li> <li>● Demonstrate how to build and maintain proper housing, such as coops, pens, or barns, that offer protection from predators, weather, and extreme temperatures</li> <li>● Demonstrate how to Install fans or sprinklers to combat heat stress during summers</li> </ul>
<b>Classroom Aids:</b>	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop	
<b>Tools, Equipment and Other Requirements</b>	
Infra-red bulbs, Reflectors/ Hovers, Rake, Ventilation fan, Linear feeder/ Circular feeder, Manual drinker/ Pan and jar type, Shell grit box, evaporative cooling pads	

## Module 3: Maintenance of poultry house

### Mapped to NOS AGR/N4327 v3.0

- Demonstrate how to maintain Poultry House safely and in hygienic way
- Show various poultry bird management techniques to promote health and safety of the birds and to combat the climatic stress as per SOP.
- Explain bio-security measures to be adopted in inter-farm transfer of feed, equipment and movement of man & material.
- Estimate required quantity of materials and equipment required in the poultry shed for maintaining health and hygiene of birds

Duration: 05:00	Duration: 08:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>● List the various equipment required to maintaining the poultry farm optimally</li> <li>● Discuss about importance of maintaining of farm equipment appropriately</li> <li>● 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</li> <li>● Explain different factors which are considered while monitoring the poultry shed.</li> <li>● Discuss the techniques which promote health and safety of the birds as per SOP</li> <li>● Discuss quantity and quality of materials and equipment required in the poultry shed for maintaining health and hygiene of birds</li> <li>● Explain the maintenance and management of the inputs supply and equipment's in poultry farm.</li> <li>● Discuss the different seasonal management techniques to fight the climatic stress to the birds.</li> <li>● Explain about bio-security measures to be adopted in inter-farm transfer of feed, equipment and movement of man &amp; material.</li> <li>● Discuss the eco-friendly methods of waste disposal and their management as per industry standards</li> <li>● Explain the Importance of following the health, hygiene, safety and quality</li> </ul>	<ul style="list-style-type: none"> <li>● Demonstrate the function of various equipment required to maintaining the poultry farm</li> <li>● Show how to clean, disinfect, sanitize and fumigate the tools/ equipment and shed safely at recommended frequency and store at appropriate place</li> <li>● Demonstrate preventive measures for the potential hazards which may arise in the shed due to the materials used or any equipment malfunction or by the birds/humans</li> <li>● Show how to maintain the comfortable environment for chicks like adequate light, heat, clean water, feed</li> <li>● Demonstrate the working methods and systems which promote health and safety of the birds and which are in alignment with the standard operating procedures</li> <li>● Demonstrate disposal techniques for waste management as per Industrial standards</li> <li>● Demonstrate how to identify problems that arise in carrying out different task and how to counter effectively.</li> <li>● Show how to prepare the housing area, adhering to the industry norms and recommendations</li> <li>● Show the poultry bird management techniques that must be followed which promote health and safety of the birds</li> </ul>

<p>standards of birds, consumers and the business.</p> <ul style="list-style-type: none"> <li>● Explain how to ensure sheds are leak-proof and birds remain dry during the monsoon</li> </ul>	<p>and also to combat the climatic stress as per SOP.</p> <ul style="list-style-type: none"> <li>● Demonstrate how to use additional bedding or heaters to maintain warmth during winters</li> <li>● Demonstrate how to regulate temperature, lighting, and ventilation in poultry houses to create optimal living conditions for bird health and productivity</li> </ul>
<p><b>Classroom Aids:</b></p>	
<p>Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop</p>	
<p><b>Tools, Equipment and Other Requirements</b></p>	
<p>Infra-red bulbs, Reflectors/ Hovers, Rake, Ventilation fan, Linear feeder/ Circular feeder, Manual drinker/ Pan and jar type, Shell grit box, evaporative cooling pads</p>	

## Module 4: Maintenance of the poultry shed to receive and manage the chicks/birds

*Mapped to NOS AGR/N4328 v3.0*

### Terminal Outcomes:

- Receiving and inducting the chicks/birds
- Managing chicks/birds for better liveability and productivity

Duration: 05:00	Duration: 10:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>• Explain types of housing areas suitable for the chicks/birds</li> <li>• Discuss appropriate stocking density as per the age of birds</li> <li>• Explain quantity &amp; quality of materials and equipment required in the poultry shed for maintaining health and hygiene of birds</li> <li>• Explain the signs of stress, normal/abnormal behavior in birds and its alleviation methods</li> <li>• Explain management practices to be adopted for different climatic condition to achieve the optimum production</li> <li>• Explain balanced feed and sanitized water to be provided to chicks/birds</li> <li>• Discuss the disinfection process for poultry shed, equipment and other tools</li> <li>• Explain waste disposal techniques for litter &amp; discarded feed as per the industry guidelines and policies</li> <li>• Explain standard operating procedures while receiving and handling the chicks/birds</li> <li>• Explain the impact of not following the health, safety and quality standard.</li> <li>• Discuss the importance of regular cleaning and replacing the bedding material to maintain hygiene</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrate how to clean and sanitized the shed and its surrounding area thoroughly before the receipt of new batch of chicks/birds</li> <li>• Show how to prepare and establish adequate quantity of materials and equipment suitable for the reception of birds prior to their arrival</li> <li>• Show how to maintain a conducive environment during the arrival and establishment of chicks/birds</li> <li>• Demonstrate how to carry out brooder/shed management with the required stock density, following the industry guidelines</li> <li>• Show how to maintain the quality of litter with optimum moisture and ammonia level by racking</li> <li>• Show how to monitor and assess the condition of chicks/birds to ensure their health and safety</li> <li>• Demonstrate the procedure for disposal of waste materials is done in an eco-friendly manner.</li> <li>• Demonstrate the use of PPE while handling chicks/birds</li> <li>• Demonstrate the procedure for introduction of chicks/birds with minimum stress</li> <li>• Demonstrate the use of poultry droppings as organic fertilizer or sell it to local farmers</li> </ul>
<b>Classroom Aids:</b>	

Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop

**Tools, Equipment and Other Requirements**

Gloves, Rake , Rubber boots, sanitizers, water, feed etc.

## Module 5: Handling chicks/birds in poultry sheds

*Mapped to NOS AGR/N4328 v3.0*

**Terminal Outcomes:**

- Process of handling poultry birds in the sheds
- Show how to monitor poultry birds within the accommodation based on various parameter
- Show how to manage chicks/birds for better liveability and productivity
- Explain bio-security measures and vaccination schedules of chicks/birds
- Show methods of waste segregation and their management as per standard

Duration: 05:00	Duration: 10:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>● Discuss about the behaviour of Poultry birds and safe handling of chicks/birds</li> <li>● Discuss different types of stress that occur in poultry birds and their management</li> <li>● Discuss health and hygiene requirements of poultry farm</li> <li>● Discuss appropriate stocking density as per the age of birds</li> <li>● List the materials (e.g. layering) and environmental conditions which birds need within their accommodation to maintain their health and well-being</li> <li>● Describe specific needs of special care birds</li> <li>● Explain the feed and drinking mechanisms for birds</li> <li>● Explain about balanced diet given for poultry birds at different stages</li> <li>● Explain how to monitor and asses the condition of birds and to identify the signs of stress, normal/abnormal behaviour</li> <li>● Explain the Industrial guidelines and standard operating procedure</li> </ul>	<ul style="list-style-type: none"> <li>● Show key criterion while analysing and monitoring of behaviour of poultry birds</li> <li>● Demonstrate use of the tools/equipment required for better management of poultry birds</li> <li>● Show the procedures to be followed to place the birds into the accommodation</li> <li>● Demonstrate disinfection process for poultry shed, equipment and other tools</li> <li>● Demonstrate handling of birds correctly and safely</li> <li>● Demonstrate the cleaning of the shed, floor and water containers and nests according to the bird accommodation and specification</li> <li>● Show how to introduce birds into the accommodation in a way that minimizes stress and maintains their health and hygiene</li> <li>● Show preparation and establishment of adequate quantity of materials and equipment suitable for the reception of birds</li> <li>● Show how to monitor light, heat, water, feed, space are adequate for the birds maintaining safety standard</li> <li>● Show management practices to be adopted for different climatic condition to achieve the optimum production</li> <li>● Demonstrate the procedures for maintaining</li> </ul>

<p>regarding the brooder/shed management</p> <ul style="list-style-type: none"> <li>● Explain the signs of stress, normal/abnormal behavior in birds and its alleviation methods</li> <li>● Explain the process of raking</li> <li>● Discuss bio-security measures and vaccination schedules of chicks/birds</li> <li>● Explain the rules and regulations pertaining to poultry welfare and farming</li> <li>● Explain the proper waste disposal methods</li> </ul>	<p>quality of the litter with optimum moisture</p> <ul style="list-style-type: none"> <li>● Demonstrate the process of raking to control moisture and ammonia level</li> <li>● Demonstrate methods of waste segregation and their management as per standard</li> </ul>
<p><b>Classroom Aids:</b></p>	
<p>Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop</p>	
<p><b>Tools, Equipment and Other Requirements</b></p>	
<p>Gloves, Rake , Rubber boots, Sanitizer</p>	

## Module 6: Feeding and watering to poultry birds

*Mapped to NOS AGR/N4329 v3.0*

### Terminal Outcomes:

- Prepare feed and water supplies for birds
- Monitor and maintain the supply of feed and water to birds

Duration: 10:00	Duration: 20:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>● Explain the norms to be followed in receiving, the handling, distributions of the feed as per industry standard</li> <li>● Explain the parameter to check the quality of the feed</li> <li>● Discuss the quantity and type of feed and water requirements of birds as per their breed, season and growth stage</li> <li>● Discuss appropriate method of storage of feed to prevent moisture or fungal/pest infestation</li> <li>● Explain the impact of storing feed and water in unclean &amp; improper conditions on birds health and the business</li> <li>● Explain remedial measures and management techniques of different pests and diseases which affect the feed</li> <li>● Describe the timing and amount of feed and water supply</li> <li>● Explain the quantity and type of feed supplements and water requirements of birds as per their breed, season and growth stage</li> <li>● Discuss feed composition and resources required for poultry birds</li> <li>● Explain calculation of quantity of feed to be delivered to poultry birds</li> <li>● List types of feed, ingredients of poultry feed and their required qualities</li> <li>● Explain importance of water supply to birds</li> </ul>	<ul style="list-style-type: none"> <li>● Demonstrate various quality parameter to be checked for the received feed and stored feed</li> <li>● Demonstrate preparation of feed with appropriate mixture of feed and supplements</li> <li>● Examine the bird feed for quantity, quality and type of feed delivered</li> <li>● Show how to calculate the feed conversion ratio of poultry birds</li> <li>● Show how to calculate the quantity of feed to be delivered to birds</li> <li>● Demonstrate the proper way of preparing, distributing, and management of the feed.</li> <li>● Show how to maintain the feed and water equipment properly as per standard</li> <li>● Monitor the stored bird feed regularly for any signs of pest infestation and report this to the appropriate person</li> <li>● Demonstrate the safe methods of waste disposal from feeding and watering system</li> <li>● Demonstrate how to operate and maintain equipment used for feed preparation e.g. feed grinder</li> <li>● Show how to maintain the feed stock levels as per the requirement of birds in the poultry house</li> <li>● Show how to modify the distribution of feed and water process according to the season</li> <li>● Demonstrate use of PPE while handling and feed and water</li> <li>● Develop a feeding schedule to ensure balanced nutrition</li> </ul>

- Describe the Feed Conversion Ratio of Poultry birds
- List principles of stock rotation
- 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 of health and wellbeing of birds
- Explain about correct methods for disposing of organic and inorganic feed waste
- Discuss the sustainable practices to enhance gut health of birds

**Classroom Aids:**

Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop

**Tools, Equipment and Other Requirements**

Feeder, Waterer, Gloves, PPE, Feed charts, different quality of feeds

## Module 7: Maintaining health of poultry birds

*Mapped to NOS AGR/N4330 v3.0*

### Terminal Outcomes:

- Maintain the health of birds and workers to get the quality chickens

Duration: 10:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>● Explain importance the balanced diet for poultry birds</li> <li>● Discuss biosecurity measures requirements in the poultry farm</li> <li>● Discuss the importance of maintaining good health</li> <li>● Discuss medication process for treatment of problems of poultry birds as per applicable standard and regulations</li> <li>● Discuss ethno-veterinary practices adopted in the treatment of common diseases</li> <li>● List the different types of vaccines and the frequency in which they are administered to the chicks</li> <li>● Explain techniques and methods of administering prescribed basic healthcare treatments</li> <li>● Discuss sufficient stocking density requirements for movement and comfort of birds</li> <li>● Explain the normal and abnormal behavioural signs in birds</li> <li>● Describe characteristics of the breed according to growth stage</li> <li>● Discuss method of debarking and deworming of poultry birds and its importance</li> <li>● Discuss different diseases infecting poultry birds, symptoms and recommended vaccines and their schedule</li> <li>● List preventive measures for health care of chicks</li> <li>● Explain different vaccination of poultry birds and their dose at recommended schedule for immunization</li> </ul>	<ul style="list-style-type: none"> <li>● Demonstrate bio-security measures to be adopted in the management of a poultry farm</li> <li>● Demonstrate use of first aid for poultry health care and treatment</li> <li>● Show preventive care methods for ensuring health and wellbeing of birds</li> <li>● Show techniques and methods of administering prescribed basic healthcare treatments</li> <li>● Demonstrate how to carry out debeaking of poultry birds at an appropriate age</li> <li>● Show how to carry out regular deworming of poultry birds</li> <li>● Show waste segregation and disposal techniques as per the industry guidelines and policies</li> <li>● Show how to monitor the physical condition of the birds at suitable intervals, and recognize, record and report any abnormal signs</li> <li>● Demonstrate the use and storage of drugs, medication and equipment in accordance with veterinary operating instructions</li> <li>● Show the assistance requirements of veterinary doctor in debeaking deworming or in case of any symptom of diseases</li> <li>● Analyse for the incidence of any ecto-parasites in birds</li> <li>● Demonstrate the process of culling the unfit poultry birds</li> <li>● Manage waste safely and correctly in</li> </ul>

<ul style="list-style-type: none"> <li>● Discuss management techniques of poultry pest and parasites</li> <li>● Discuss about culling</li> <li>● List the emergency drugs and vaccines and discuss their proper storage</li> <li>● Explain physical appearance and movement of healthy birds</li> <li>● Explain the rules and regulations pertaining to poultry welfare and farming</li> <li>● Explain impact of not following health, safety and quality standards</li> <li>● Discuss possible sources of contamination to the medication and medical equipment</li> <li>● Discuss different type of waste their management</li> <li>● Discuss importance of maintaining record of the vaccination and medication details in the concerned register</li> </ul>	<p>accordance with regulatory requirements</p> <ul style="list-style-type: none"> <li>● Record and maintain the complete medication /treatment report</li> <li>● Demonstrate the process of identifying signs of illness, abnormal behavior, or growth rates in birds</li> </ul>
<p><b>Classroom Aids:</b></p>	
<p>Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop</p>	
<p><b>Tools, Equipment and Other Requirements</b></p>	
<p>Vaccines, Veterinary Doctor, Medicines, vaccination schedule</p>	

## Module 8: Harvesting eggs and meat from the birds

*Mapped to NOS AGR/N4331 v4.0*

### Terminal Outcomes:

- Show how to manage the harvesting of eggs and meat from birds
- Show how to carry out collection of eggs and lifting of broiler birds for market

Duration: 05:00	Duration: 10:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>● Discuss appropriate harvesting condition and requirements for harvesting of eggs and meat</li> <li>● Discuss pre-harvest activities and identification of appropriate time of harvesting</li> <li>● Explain quality signs for identifying the birds which are fit for harvesting</li> <li>● Discuss collection of egg, handling of egg and time of harvesting</li> <li>● List factors impacting birds' stress and minimization procedure</li> <li>● Describe necessary precautions to be taken for stress free harvesting and sanitation of equipment and work area.</li> <li>● Discuss the guidelines and importance of health, hygiene, safety and quality standards of the birds.</li> <li>● Explain the harvesting period of the birds.</li> <li>● Discuss the quality check parameter of egg while collecting it</li> <li>● Discuss quality signs for identifying the poor and good layer birds</li> <li>● Explain different marketing channels for eggs/broiler birds</li> <li>● Discuss to parameters to grade and store the eggs</li> <li>● Explain how to maintain a conducive environment for collecting eggs and lifting of birds</li> <li>● Discuss the various marketing strategies to sell the eggs in the</li> </ul>	<ul style="list-style-type: none"> <li>● Demonstrate tools and equipment's required for harvesting of egg and meat</li> <li>● Estimate the number of eggs to be harvested from the shed</li> <li>● Demonstrate different techniques and method for the collections of eggs and lifting of birds</li> <li>● Demonstrate how to Identify and harvest the birds for meat purpose</li> <li>● Show how to identify and separate the poor-quality birds</li> <li>● Show how to collect the eggs in a container without disturbing the birds in cushioned trays</li> <li>● Show how to handle the harvested eggs and meat with precautions</li> <li>● Demonstrate how to grade and store the eggs.</li> <li>● Demonstrate appropriate procedure for lifting the birds at correct time to avoid stress and shrinkage</li> <li>● Demonstrate the procedure for lifting the birds without stress</li> <li>● Show how to place the lifted birds into plastic crates or aluminium modules designed with good ventilation and safety attributes</li> <li>● Demonstrate how to monitor weight gain and prepare broilers for market &amp; remove non-productive birds from flock</li> </ul>

<p>market</p> <ul style="list-style-type: none"> <li>● Discuss suitable mode of transportation for table/hatching eggs to market and live birds to market or processing plants</li> <li>● Explain the rules and regulations pertaining to poultry welfare and farming</li> <li>● Explain impact of not following health, safety and quality standards</li> <li>● Discuss how to build relationships with local retailers, wholesalers, and end consumers</li> </ul>	
<p><b>Classroom Aids:</b></p>	
<p>Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop</p>	
<p><b>Tools, Equipment and Other Requirements</b></p>	
<p>Trays, Container</p>	

## Module 9: Sanitization and biosecurity measures for the replacement stock

*Mapped to NOS AGR/N4332 v3.0*

### Terminal Outcomes:

- Show how to sanitize shed after the bird lifting
- Undertake the bio-security measures in the poultry farm

Duration: 10:00	Duration: 20:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>• Explain the method and schedule of post-harvest clean out</li> <li>• Discuss farm decontamination</li> <li>• Explain procedures of maintaining and sanitizing feed and water equipment</li> <li>• Describe safe use of disinfectants</li> <li>• Explain the importance of PPE during cleaning and disinfection</li> <li>• Explain management techniques of different pests and diseases</li> <li>• Explain safe waste disposal methods for litter, discarded feed, dead birds and other poultry waste</li> <li>• Discuss causes of disease spread and methods of preventing disease spread from humans and other birds and animals and vice-versa</li> <li>• Explain the regulations for bird hygiene and proper sanitized environment for bird rearing</li> <li>• Explain about structural and operational biosecurity norms</li> <li>• Explain the procedure for dead bird disposal</li> <li>• List the disinfectants used at farm and their methods of application</li> <li>• Discuss different cleaning procedures.</li> <li>• Explain importance of signage boards and entry restrictions</li> <li>• Explain the rules and regulations</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrate use of tools/equipments required for clean out process</li> <li>• Plan in advance for the post-harvest cleanout</li> <li>• Carry out dry and wet cleaning procedure</li> <li>• Carry out terminal disinfection with appropriate fumigants and white wash the floors and side walls</li> <li>• Segregate waste into different categories</li> <li>• Prevent the stray animals and wild birds entering into the farm premises</li> <li>• Follow suitable pest control measures</li> <li>• Demonstrate the safe disposal of dead birds and other poultry waste, as per the industry norms</li> <li>• Make scheduling for post-harvest clean out</li> <li>• Follow the clean out activities: remove bedding, brush the floor, scrub the feed pans, clean out water lines, scrub fan blades and other equipment, check rodent stations, etc.</li> <li>• Identify and use the tools/equipment required for the clean out process</li> <li>• Demonstrate the use of the disinfectants for cleaning equipment</li> <li>• Demonstrate the use of high pressure</li> </ul>

<p>pertaining to poultry welfare and farming</p> <ul style="list-style-type: none"> <li>• Explain impact of not following health, safety and quality standards</li> </ul>	<p>hose for cleaning shed</p> <ul style="list-style-type: none"> <li>• Demonstrate the use of PPE while working</li> <li>• Follow the standard biosecurity principle/procedures</li> <li>• Demonstrate disposal of different kind of waste accordingly</li> <li>• Follow suitable pest control measures</li> </ul>
<p><b>Classroom Aids:</b></p>	
<p>Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop</p>	
<p><b>Tools, Equipment and Other Requirements</b></p>	
<p>Detergents, Baking soda, Ammonia, Borax and Trisodium phosphate, Washing soda, Caustic soda(lye), hot water, cresols, High pressure hose etc</p>	

## Module 10: Documentation and record keeping

*Mapped to NOS AGR/N4334 v3.0*

### Terminal Outcomes:

- Maintain the records related to management of poultry farm

Duration: 10:00	Duration: 20:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>● Explain the importance of documentation and maintenance of accurate and complete</li> <li>● Discuss different types of record to keep for poultry</li> <li>● Discuss methods of documentation and record related to poultry farm like- of layer and broilers, complete poultry production process and financial records</li> <li>● Discuss record keeping system used in poultry production</li> <li>● Discuss about methods to track back the record from finished product to raw material.</li> <li>● Explain the methods to calculate revenue, profit, input-output ratios, B:C ratio for the better decision making and Ascertainment of the business.</li> <li>● Explain the rules and regulations pertaining to poultry welfare and farming</li> <li>● Explain impact of not following health, safety and quality standards</li> </ul>	<ul style="list-style-type: none"> <li>● Document and maintain records of layers and broilers (related to small poultry farm)</li> <li>● Document and maintain records related to poultry production (related to small poultry farm): feed record, bird record, medicine record, labour record, expenditure record, eggs record, weight of birds, etc.</li> <li>● Document and maintain records of costs incurred including by expenses on feed, inputs cost, vaccination cost, transportation cost (if any), marketing cost etc.</li> <li>● Document and maintain records of feed consumption, water consumption and egg production of layers</li> <li>● Document and maintain the records of mortality rate of birds, vaccination schedules, illness occurrence &amp; treatments, disease outbreaks etc.,</li> <li>● Prepare and maintain records of quantity of feed, amount of water, disinfectants, etc. Being used in the poultry shed</li> <li>● Maintain the records of number of egg trays and meat birds for marketing to keep a track of input/output ratio</li> <li>● Maintain records of the monetary value of the sale of the produce</li> <li>● Prepare and maintain financial records of inputs purchased and other costs incurred</li> <li>● Demonstrate usage of computer</li> </ul>

	application and relevant tools
<b>Classroom Aids:</b>	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop	
<b>Tools, Equipment and Other Requirements</b>	
Records, Record books, Bills for expenses, Budget allocation sheet, Receipt invoice etc.	

## Module 11: Safety, hygiene and sanitation of a Poultry farm

*Mapped to NOS AGR/N4316 v2.0*

### Terminal Outcomes:

- Maintain the safety, hygiene and sanitation of poultry farm required for quality standards

Duration: 15:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>● List the measures to maintain health and safety at the work place</li> <li>● Describe the importance of hygiene at the farm</li> <li>● Discuss about importance of maintaining of farm equipment</li> <li>● Describe the environmental conditions required at farm</li> <li>● List the Precautionary measure while handling all the chemical substances</li> <li>● Explain the safety checklist and procedures followed by the organization</li> <li>● Discuss the bio-security protocols</li> <li>● Explain safe waste disposal methods</li> <li>● Explain physical, chemical and biological hazards and methods of prevention</li> <li>● Discuss different types of sanitizers used for storage area and equipment and the procedure to use</li> <li>● Explain precautionary measures of using and storing various chemicals at the workspace</li> <li>● Explain first aid treatment to be administered in case of emergencies</li> <li>● Explain the rules and regulations pertaining to poultry welfare and farming</li> <li>● Explain impact of not following health, safety and quality standards</li> </ul>	<ul style="list-style-type: none"> <li>● Maintain a clean and efficient workplace</li> <li>● Monitor facility and equipment being used are sanitized as per the industry standards</li> <li>● Observe and inspect the farm equipment's</li> <li>● Maintain proper temperature level, light intensity, moisture level, ventilation etc.</li> <li>● Monitor for proper temperature level, light intensity, moisture level, ventilation etc.</li> <li>● Maintain the lesser mortality of chicks</li> <li>● Report to supervisor at regular time intervals</li> <li>● Render appropriate emergency procedures</li> <li>● Follow Bio-security protocols</li> <li>● Apply appropriate emergency procedures</li> <li>● Practice general safety and first aid</li> <li>● Report to supervisor at regular time intervals</li> <li>● Follow practices for waste management</li> <li>● Follow Proper disposal procedures</li> <li>● Demonstrate usage of PPE</li> <li>● Maintain first aid kit at appropriate locations</li> </ul>

**Classroom Aids:**

Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop

**Tools, Equipment and Other Requirements**

Bleach, Iodine , Hydrogen peroxide, Disinfectants, Sanitizers, Sprayer, Face Mask, Gloves, Gum Boots, Disposal Bags, First aid Kit

## Module 12: Entrepreneurship and marketing for poultry farming

*Mapped to NOS AGR/N9908 v4.0*

### Terminal Outcomes:

- Describe the basic principles of book keeping
- Describe the process of planning the agricultural enterprise/ business.
- Describe the process of managing the agricultural production process.
- Describe the process of managing the post-production and marketing processes.

Duration: 20:00	Duration: 10:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>● Explain about poultry farming economics and finances</li> <li>● Discuss marketing of harvested products (meat and eggs)</li> <li>● List basic principles of keeping books of accounts</li> <li>● Discuss the market information management</li> <li>● Discuss income and expenditure statement</li> <li>● Explain Calculation of NPV, B:C Ratio and IRR</li> <li>● Discuss techno economic parameters related to project preparation</li> <li>● Discuss appropriate supply chain for the poultry meat and egg</li> <li>● Explain how to analyse the demand and supply of the relevant poultry produce in the market</li> <li>● Describe the process of identifying the target customers and assess their needs and expectations with respect to the quality and price of the produce.</li> <li>● Explain how to identify various types of agricultural entrepreneurship/ business opportunities.</li> <li>● Explain how to prepare a basic business plan for agricultural entrepreneurship/business activities.</li> <li>● State the appropriate sources of</li> </ul>	<ul style="list-style-type: none"> <li>● Demonstrate how to analyse the demand and supply of the relevant agricultural produce in the market.</li> <li>● Show preparation of financial project proposal as per business requirements</li> <li>● Demonstrate how to calculate the costs incurred and determine the price of the product for profitability.</li> <li>● Prepare a sample marketing plan considering the 4Ps i.e., product, price, promotion, and place and 4As i.e., acceptability, affordability, accessibility, and awareness.</li> <li>● Demonstrate the process of using the relevant digital services such as e-commerce, e-payments, electronic recordkeeping, etc.</li> <li>● Demonstrate how to maintain books of accounts and various transactions of the farm</li> <li>● Show how to assess the influence of various quality parameters of egg/meat on the egg/meat pricing</li> <li>●</li> </ul>

funding for the agricultural entrepreneurship/ businesses

- State the relevant government schemes and programs
- Explain the importance of ensuring compliance with the government structural reforms and
- framework, along with the applicable rules and regulations.
- List various resources required for agricultural production
- Describe the process of planning agricultural production and the use of relevant technologies to enhance production
- Explain the importance of ensuring no cause adverse impact on the environment and produce during production
- State the recommended practices to be followed for efficient input resource management.
- Describe the process of optimising the production processes and output through the amalgamation of existing practices with smart technologies.
- Explain the recommended sustainability practices to be followed during agricultural production to prevent and deal with deforestation, loss of biodiversity, soil degradation, etc.
- Explain how to collect information related to the wholesale and retail price of agricultural produce.
- Explain how to calculate the economics of the produce viz. production cost, price of the produce, B:C Ratio etc.
- Describe pricing mechanism of various buyers of egg/meat and poultry products
- Explain the relevant government schemes with the provision of

<p>subsidies/funds for the promotion of agricultural produce.</p> <ul style="list-style-type: none"> <li>● Describe the process of selecting appropriate marketing channels for marketing agricultural produce, and the applicable requirements and constraints.</li> <li>● List the relevant buyers of different types of agricultural produce.</li> <li>● Explain how to identify and manage various risks to production and post-production processes.</li> <li>● Explain how to undertake outreach programs to promote agricultural products and services, and expand agri-business.</li> <li>● 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.</li> <li>● Explain the use of the relevant digital services such as e-commerce, e-payments, electronic recordkeeping, etc.</li> <li>● Explain the importance of using efficient post-production logistics.</li> <li>● Explain the importance of maintaining various records accurately.</li> </ul>	
<b>Classroom Aids</b>	
Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop	
<b>Tools, Equipment and Other Requirements</b>	
NA	

## Module 13: Collective farming/ activity

*Mapped to NOS AGR/N9922 v2.0*

### Terminal Outcomes:

- Explain about Producer Groups (PGs), Farmers Interest Groups (FIGs), Self-Help Groups (SHGs)
- Explain process of creation or joining of PGs/ FIGs/ SHGs
- Show necessary preparation required for PG/ FIG/ SHG operations
- Practice forward and backward linkages through the PGs/ FIGs/ SHGs

Duration: 10:00	Duration: 20:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>● Discuss collective farming their importance and benefits</li> <li>● Explain about Producer Groups (PGs), Farmers Interest Groups (FIGs), Self-Help Groups (SHGs) and how these are created and also their importance and benefits</li> <li>● Explain how to connect and partner with other groups to expand the network and address common problems at a large scale</li> <li>● Discuss necessity of organising fundraising activities to support the functioning of the group</li> <li>● Explain the importance of setting the group objectives and deciding the group income-generating enterprises/ activities, methods of operation, benefits, etc.</li> <li>● Discuss the rules and regulations in the creation or participation in collective groups</li> <li>● Discuss the process of preparing for the PG/ FIG/ SHG operations such as fundraising, induction of SMEs, investing in ICT products.</li> <li>● Explain how to establish links with the local government at the panchayat level to obtain access to the relevant government development programmes and funds</li> <li>● Explain the process of commodity convergence with the relevant developmental programs</li> </ul>	<ul style="list-style-type: none"> <li>● Demonstrate how to identify farmers/ groups with the common interests in the area for creation of Producer Groups (PGs)/Farmers Interest Groups (FIGs)/ Self-Help Groups (SHGs) by following the applicable rules and regulations</li> <li>● Show how to plan for optimal production to meet the market and household food security needs</li> <li>● Demonstrate how to set the group objectives and decide the group income-generating enterprises/ activities, methods of operation, benefits, etc.</li> <li>● Show the process of conducting field trials to identify and resolve problems encountered by farmers in the field operations</li> <li>● Exhibit plan for the core collective farming activities such as procuring inputs in bulk, large-scale farming, packing, transportation and marketing of the produce, etc.</li> <li>● Demonstrate importance, utility and benefits of Information and Communication Technology (ICT) products</li> <li>● Arrange/ participate in capacity building exercises such as skill development and training programs</li> <li>● Demonstrate how to identify and follow the relevant practices to add value to the produce such as processing, packing, upgrading the</li> </ul>

<ul style="list-style-type: none"> <li>● Describe the importance of attending the PG/FIG/ SHG meetings and training sessions</li> <li>● Explain the concept of group-owned bank for providing the required input for production to the member farmers</li> <li>● Explain the process of using the group's credit facility</li> <li>● Discuss about the concept and benefits of the practice of forward and backward linkages</li> <li>● Explain the value addition practices such as processing, packing, upgrading the quality</li> </ul>	<p>quality, etc.</p> <ul style="list-style-type: none"> <li>● Show plan for and necessary requirements for practicing forward and backward linkages through the PGs/ FIGs/ SHGs</li> </ul>
<b>Classroom Aids:</b>	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop	
<b>Tools, Equipment and Other Requirements</b>	
Relevant case studies, Success stories	

## Module 14: Employability Skills (60 hours)

*Mapped to NOS DGT/VSQ/N0102 v1.0*

**Duration: 60:00**

### Key Learning Outcomes

#### Introduction to Employability Skills Duration: 1.5 Hours

After completing this programme, participants will be able to:

1. Discuss the Employability Skills required for jobs in various industries
2. List different learning and employability related GOI and private portals and their usage

#### Constitutional values - Citizenship Duration: 1.5 Hours

3. Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen
4. Show how to practice different environmentally sustainable practices.

#### Becoming a Professional in the 21st Century Duration: 2.5 Hours

5. Discuss importance of relevant 21st century skills.
6. Exhibit 21st century skills like Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life.
7. Describe the benefits of continuous learning.

#### Basic English Skills Duration: 10 Hours

8. Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone
9. Read and interpret text written in basic English
10. Write a short note/paragraph / letter/e-mail using basic English

#### Career Development & Goal Setting Duration: 2 Hours

11. Create a career development plan with well-defined short- and long-term goals

#### Communication Skills Duration: 5 Hours

12. Demonstrate how to communicate effectively using verbal and nonverbal communication etiquette.
13. Explain the importance of active listening for effective communication
14. Discuss the significance of working collaboratively with others in a team

#### Diversity & Inclusion Duration: 2.5 Hours

15. Demonstrate how to behave, communicate, and conduct oneself appropriately with all genders and PwD
16. Discuss the significance of escalating sexual harassment issues as per POSH act.

#### Financial and Legal Literacy Duration: 5 Hours

17. Outline the importance of selecting the right financial institution, product, and service
18. Demonstrate how to carry out offline and online financial transactions, safely and securely
19. List the common components of salary and compute income, expenditure, taxes, investments etc.

20. Discuss the legal rights, laws, and aids

**Essential Digital Skills Duration: 10 Hours**

21. Describe the role of digital technology in today's life
22. Demonstrate how to operate digital devices and use the associated applications and features, safely and securely
23. Discuss the significance of displaying responsible online behavior while browsing, using various social media platforms, e-mails, etc., safely and securely
24. Create sample word documents, excel sheets and presentations using basic features
25. utilize virtual collaboration tools to work effectively

**Entrepreneurship Duration: 7 Hours**

26. Explain the types of entrepreneurship and enterprises
27. Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan
28. Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement
29. Create a sample business plan, for the selected business opportunity

**Customer Service Duration: 5 Hours**

30. Describe the significance of analysing different types and needs of customers
31. Explain the significance of identifying customer needs and responding to them in a professional manner.
32. Discuss the significance of maintaining hygiene and dressing appropriately

**Getting Ready for apprenticeship & Jobs Duration: 8 Hours**

33. Create a professional Curriculum Vitae (CV)
34. Use various offline and online job search sources such as employment exchanges, recruitment agencies, and job portals respectively
35. Discuss the significance of maintaining hygiene and confidence during an interview
36. Perform a mock interview
37. List the steps for searching and registering for apprenticeship opportunities

## Module 15: On-the-Job Training Duration (Mandatory)

### Mapped to AGR/Q4306 v4.0

Mandatory Duration: 60:00

Location: On-Site

#### Terminal Outcomes

1. prepare the shed for poultry birds – ventilation opening, feeder, water, moisture level, dust
2. Demonstrate the function of various equipment required to maintaining the poultry farm
3. maintain the comfortable environment for chicks like adequate light, heat, clean water, feed
4. Demonstrate the procedure for disposal of waste materials is done in an eco-friendly manner.
5. prepare the housing area, adhering to the industry norms and recommendations
6. prepare and establish adequate quantity of chicks, materials and equipment suitable for the reception of birds
7. maintain the quality of litter with optimum moisture and ammonia level by racking
8. Demonstrate the cleaning of the shed, floor and water containers and nests according to the bird accommodation and specification
9. monitor light, heat, water, feed, space are adequate for the birds maintaining safety standard
10. Demonstrate preparation of feed with appropriate mixture of feed and supplements and its distribution
11. carry out regular deworming of poultry birds
12. Demonstrate the process of culling the unfit poultry birds
13. Demonstrate different techniques and method for the collections of eggs and lifting of birds
14. handle the harvested eggs and meat with precautions
15. Demonstrate how to grade and store the eggs
16. Demonstrate the procedure for lifting the birds without stress

## Annexure

### Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Diploma	Veterinary /Animal Husbandry / Poultry	3	Poultry Farming	0		Regular Diploma more than 15 months
Graduate	Graduate in any stream except Agriculture and poultry related stream	3	Poultry Farming	0		For the school Program minimum qualification of the Trainer should be Graduate (Zoology/Agriculture). With Minimum 3 years Teaching experience (will be considered industry experience)
Graduate	Agriculture	2	Poultry Farming	0		
Graduate	Poultry Production Technology/ Animal Husbandry & Dairying/Poultry Production and Business Management	0.5	Poultry Farming			
B. V. Sc.		0		0		
Post Graduate	Animal Science/Poultry Production/Poultry Science/Applied Poultry Science	0		0		

Trainer Certification	
Domain Certification	Platform Certification
Certified for Job Role “ <b>Small Poultry Farmer</b> ”, mapped to QP: “AGR/Q4306, v4.0”, Minimum accepted score is 80%	Recommended that the Trainer is certified for the Job Role: “Trainer (Vet and Skills)”, mapped to the Qualification Pack: “MEP/Q2601, v2.0”. The minimum accepted score as per MEPSC guidelines is 80%.

## Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
B. V. Sc.		4	In Animal Science/Veterinary Science /Poultry Science and related experiences	0		Practical skills and knowledge required in poultry farming and overall management.
B. Tech	Poultry Production Technology	4	In Animal Science/Veterinary Science /Poultry Science and related experiences	0		Practical skills and knowledge required in poultry farming and overall management.
B. Sc	Animal Husbandry & Dairying/Poultry Production and Business Management	5	In Animal Science/Veterinary Science /Poultry Science and related experiences	0		Practical skills and knowledge required in poultry farming and overall management.
M. Sc	Animal Science/Poultry Production/Poultry Science/Applied Poultry Science	2	In Animal Science/Veterinary Science /Poultry Science and related experiences	0		Practical skills and knowledge required in poultry farming and overall management.
M. V. Sc		2	In Animal Science/Veterinary Science /Poultry Science and related experiences	0		Practical skills and knowledge required in poultry farming and overall management.
Ph. D	Poultry Science/Animal Science/ Veterinary Science/Animal Genetics and Breeding	1	In Animal Science/Veterinary Science /Poultry Science and related experiences	0		Practical skills and knowledge required in poultry farming and overall management.

Assessor Certification	
Domain Certification	Platform Certification
Certified for Job Role “ <b>Small Poultry Farmer</b> ”, mapped to QP: “AGR/Q4306, v4.0”, Minimum accepted score is 80%	Certified for the Job Role: “Assessor (Vet and Skills)”, mapped to the Qualification Pack: “MEP/Q2701, v2.0”, with a minimum score of 80%.

## Assessment Strategy

### Assessment System Overview

In Agriculture Sector it is of ultimate importance that individuals dealing with crop production or livestock have the requisite knowledge and competencies to undertake the task. Based on the Assessment Criteria, SSC in association with empaneled AAs, define the test structure for the given job roles to cover the required skills and competencies. Assessment strategy consists of the following:

1. Multiple Choice Questions: To assess basic knowledge (Objective/Subjective)
2. Viva: To assess awareness on processes (Oral and/or written questioning)
3. Practical: To evaluate skills and identify competencies. (Observation)

Assessments for knowledge and awareness on processes may be conducted through 'real-time' internet-based evaluation or by conducting the same 'offline' through TABs. Skills and competencies are to be assessed by conducting 'practical' on the ground through qualified and ToA certified assessors.

An individual must have adequate knowledge and skills to perform a specific task, weightage for different aspects of the assessment is given as follows:

- Multiple Choice Questions: 20%-30%, depending on the specific QP
- Viva: 20%
- Practical: 50% - 60% (Involves demonstrations of applications and presentations of procedures/tasks and other components)
- Assessment will be carried out by certified assessors through empanelled assessment partners. Based on the results of the assessment; ASCI will certify the learners/candidates

### Testing Environment

Assessments are conducted on laptops, Mobiles and android tablets via both offline and online mode depending on the internet connectivity at the assessment location.

In remote locations/villages, assessments get delivered through tablets without the requirement of the Internet.

- Multilingual assessments (ASCI is conducting the assessments in 13 + languages pan India)
- Rubric driven assessments in Practical/Viva sections and responses recorded accordingly
- All responses, data, records and feedback stored digitally on the cloud
- Advanced auto-proctoring features – photographs, time-stamp, geographic-tagging, toggle- screen/copy-paste disabled, etc.

- Android-based monitoring system
- End to end process from allocation of a batch to final result upload, there is no manual intervention
- Assessment will normally be fixed for a day after the end date of the training / within 7 days of completion of training.
- Assessment will be conducted at the training venue
- The room where assessment is conducted will be set with proper seating arrangements with enough space to curb copying or other unethical activities
- Question bank of theory and practice will be prepared by ASCI /assessment agency and approved ASCI. Only from approved Question Bank assessment agency will prepare the question paper. Theory testing will include multiple-choice questions, pictorial questions, etc. which will test the trainee on his theoretical knowledge of the subject.
- The theory, practical and viva assessments will be carried out on the same day. In case of a greater number of candidates, the number of assessors and venue facilitation be increased and facilitated

Assessment			
Assessment Type	Formative or Summative	Strategies	Examples
Theory	Summative	MCQ/Written exam	Knowledge of facts related to the job role and functions. Understanding of principles and concepts related to the job role and functions
Practical	Summative	Structured tasks/Demonstration	Practical application /Demonstration /Application tasks
Viva	Summative	Questioning and Probing	Mock interviews on the usability of job roles/advantages /importance of adherence to procedures. Viva will be used to gauge trainee's confidence and correct knowledge in handling the job situation

The question paper pre-loaded in the computer /Tablet and it will be in the language as requested by the training partner.

## Assessment Quality Assurance framework

### Assessment Framework and Design:

Based on the Assessment Criteria, SSC in association with AAs will define the test structure for the given roles to cover the required skills and competencies. ASCI offer a bouquet of tools for multi-dimensional evaluation of candidates covering language, cognitive skills, behavioural traits and domain knowledge.

**Theoretical Knowledge** - Item constructs and types are determined by a theoretical understanding of the testing objectives and published research about the item types and constructs that have shown statistical validity towards measuring the construct. Test item types that have been reported to be coachable are not included. Based on these, items are developed by domain experts. They are provided with comprehensive guidelines of the testing objectives of each question and other quality measures.

**Type** – Questions based on Knowledge Required, Case-based practical scenario questions and automated simulation-based questions.

**Practical Skills** - The practical assessments are developed taking into consideration two aspects: what practical tasks is the candidate expected to perform on the job and what aspects of the job cannot be judged through theoretical assessments. The candidates shall be asked to perform either an entire task or a set of subtasks depending on the nature of the job role

**Type** – Standardized rubrics for evaluation against a set of tasks in a demo/practical task

**Viva Voce** - Those practical tasks which cannot be performed due to time or resource constraints are evaluated through the viva mode. Practical tasks are backed up with Viva for thorough assessment and complete evaluation

**Type** – Procedural questions, dos and don'ts, subjective questions to check the understanding of practical tasks.

The assessor has to go through an orientation program organized by the Assessment Agency. The training would give an overview to the assessors on the overall framework of QP evaluation. The assessor shall be given a NOS and PC level overview of each QP as applicable. The overall structure of assessment and objectivity of the marking scheme will be explained to them. The giving of marks will be driven by an objective framework that will maintain the standardization of the marking scheme.

### Type of Evidence and Evidence Gathering Protocol:

During the assessment the evidence collected by AAs and ASCI are:

- GeoTagging to track ongoing assessment
- AA's coordinator emails the list of documents and evidence (photos and videos) to the assessor one day before the assessment. The list is mentioned below:
  - Signed Attendance sheet

- Assessor feedback sheet
  - Candidate feedback sheet
  - Assessment checklist for assessor
  - Candidate Aadhar/ID card verification
  - Pictures of the classroom, labs to check the availability of adequate equipment's and tool to conduct the training and assessment
  - Pictures and videos of Assessment, training feedback and infrastructure.
- Apart from the Assessor, a Technical assistant is popularly known as Proctor also ensures the proper documentation and they verify each other's tasks.
  - To validate their work on the day of the assessment, regular calls and video calls are done.
  - On-boarding and training of assessor and proctor is done on a timely basis to ensure that the quality of the assessment should be maintained.
  - Training covers the understanding of QP, NSQF level, NOS and assessment structure

### ***Methods of Validation***

- Morning Check (Pre-Assessment): Backend team of AA calls and confirms assessor/technical SPOC event status. Assessor/Technical SPOC are instructed to reach the centre on time by 9:30 AM / as decided with TC and delay should be highlighted to the Training Partner in advance.
- Video Calls: Random video calls are made to the technical SPOC/assessor so as to keep a check on assessment quality and ensure assessment is carried out in a fair and transparent manner
- Aadhar verification of candidates
- Evening Check (Post Assessment): Calls are made to the ground team to ensure the event is over by what time and the documentation is done properly or not.
- TP Calling: To keep a check on malpractices, an independent audit team calls the TP on a recorded line to take confirmation if there was any malpractice activity observed in the assessment on part of the AA/SSC team. If calls are not connected, an email is sent to TP SPOC for taking their confirmation
- Video and Picture Evidence: Backend team collects video and pictures for assessment on a real-time basis and highlights any issue such as students sitting idle/ trainer helping the candidates during the assessment.
- Surprise Visit: Time to time SSC/AA Audit team can visit the assessment location and conduct a surprise audit for the assessment carried out by the ground team.
- Geo Tagging: On the day of the assessment, each technical SPOC is required to login into our internal app which is Geotagged. Any deviation with the centre address needs to be highlighted to the assessment team on a real-time basis.

### ***Method for assessment documentation, archiving, and Access:***

- ASCI have a fully automated result generation process in association with multiple AAs
- Theory, Practical and Viva marks form the basis of the results and encrypted files generated to avoid data manipulation. All responses were captured and stored in the System with Time-Stamps at the end of AAs and SSC. NOS-wise and PC-wise scores can be generated.
- Maker Checker concept: One person prepares the results and another audit result which is internally approved by AA at first and then gets vetted at the end of SSC
- All softcopies of documents are received from the on-ground tech team over email. The same is downloaded by our internal backend team and saved in Repository. The repository consists of scheme-wise folders. These scheme-wise folders have two job role-specific folders. These specific folders have Year wise and Month wise folders where all documents are saved in Batch specific folders. All Hard copies are filed and stored in the storeroom.

#### ***Result Review & Recheck Mechanism –***

- Time-stamped assessment logs
- Answer/Endorsement sheets for each candidate
- Attendance Sheet
- Feedback Forms: Assessor feedback form, Candidate feedback form, TP feedback form
- The results for each of the candidate shall be stored and available for review (retained for 5 years/ till the conclusion of the project or scheme)

## References

### Glossary

Term	Description
<b>Declarative Knowledge</b>	Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood in order to accomplish a task or to solve a problem.
<b>Key Learning Outcome</b>	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
<b>OJT (M)</b>	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on site
<b>OJT (R)</b>	On-the-job training (Recommended); trainees are recommended the specified hours of training on site
<b>Procedural Knowledge</b>	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work, or produce a tangible work output by applying cognitive, affective or psychomotor skills.
<b>Training Outcome</b>	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training.
<b>Terminal Outcome</b>	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome.

## Acronyms and Abbreviations

Term	Description
AGR	Agriculture
FYM	Farm Yard Manure
NOS	National Occupational Standard (s)
NSQF	National Skills Qualifications Framework
OJT	On-the-job Training
PwD	People with Disability
PPE	Personal Protective Equipment
QP	Qualifications Pack