







# **Model Curriculum**

**QP Name: Piggery Farmer** 

QP Code: AGR/Q4502

Version: 2.0

**NSQF Level: 3** 

**Model Curriculum Version: 1.0** 

Agriculture Skill Council of India | Agriculture Skill Council of India (ASCI), 6th Floor, GNG Tower,
Plot No. 10, Sector - 44







# **Table of Contents**

### **Contents**

Training Parameters	3
Program Overview	4
Training Outcomes	4
Compulsory Modules	4
Module 1: Introduction to the role of a Piggery Farmer	6
Module 2: Process of coordinating the construction activities at the pig farm	7
Module 3: Process of undertaking feed and health management and marketing of pigs	9
Module 4: Process of procuring and maintaining pigs for breeding	11
Module 5: Process of undertaking the breeding of pigs	12
Module 6: Process of undertaking the fattening of pigs	14
Module 7: Hygiene and cleanliness	16
Module 8: Safety and emergency procedures	17
Module 9: Employability Skills	18
Module 10: On-the-Job Training	20
Annexure	21
Trainer Requirements	21
Assessor Requirements	22
Assessment Strategy	23
References	28
Glossary	28
Acronyms and Ahhreviations	29







# **Training Parameters**

Sector	Agriculture
Sub-Sector	Animal Husbandry
Occupation	Small Ruminants & Others
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015/6121.0100
Minimum Educational Qualification and Experience	8th grade pass with 2 years of relevant experience OR Grade 8 pass and pursuing continuous schooling in regular school with vocational subject OR 5th grade pass with 5 years of relevant experience OR Previous relevant qualification of NSQF Level 2 with 1 year of relevant experience OR Previous relevant qualification of NSQF Level 2.5 with 6 months of relevant experience
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	29/03/2023
Next Review Date	29/03/2026
NSQC Approval Date	29/03/2023
QP Version	2.0
Model Curriculum Creation Date	29/03/2023
Model Curriculum Valid Up to Date	29/03/2026
Model Curriculum Version	1.0
Minimum Duration of the Course	270 Hours
Maximum Duration of the Course	270 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 to:

- Elucidate ways to coordinate the construction activities at the pig farm.
- Describe the process of undertaking feed and health management and marketing of pigs.
- Demonstrate various practices to ensure health and safety at work.
- Explain the process of procuring and maintaining pigs for breeding.
- Describe the process of undertaking the breeding of pigs.

#### **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
Bridge Module	05:00	00:00	00:00	00:00	05:00
Module 1: Introduction to the role of a Piggery Farmer	05:00	00:00	00:00	00:00	05:00
AGR/N4501: Coordinate the construction activities at the pig farm NOS Version- 2.0 NSQF Level- 3	10:00	15:00	0:00	00:00	25:00
Module 2: Process of coordinating the construction activities at the pig farm	10:00	15:00	0:00	00:00	25:00
AGR/N4504: Undertake feed and health management and marketing of pigs NOS Version- 2.0 NSQF Level- 3	25:00	35:00	0:00	00:00	60:00
Module 3: Process of undertaking feed and health management and marketing of pigs	25:00	35:00	0:00	00:00	60:00
AGR/N4502: Procure and maintain pigs for breeding NOS Version- 2.0 NSQF Level- 3	15:00	15:00	0:00	00:00	30:00







00 15:0 00 15:0		00:00	30:00
	0:00	00:00	30:00
00 15:0	0:00	00:00	30:00
00 15:0	0:00	00:00	30:00
00 15:0	0:00	00:00	30:00
00 25:0	0:00	00:00	30:00
00 10:0	0:00	00:00	12:00
00 15:0	0:00	00:00	18:00
00:0	0:00	00:00	30:00
00:0	0:00	00:00	30:00
120:0	0:00	00:00	240:00
	00 15:0 00 25:0 00 10:0 00 00:0 00 00:0	00       15:00       0:00         00       25:00       0:00         00       10:00       0:00         00       15:00       0:00         00       00:00       0:00         00       00:00       0:00	00       15:00       0:00       00:00         00       25:00       0:00       00:00         00       10:00       0:00       00:00         00       15:00       0:00       00:00         00       00:00       0:00       00:00         00       00:00       0:00       00:00         :00       120:00       0:00       00:00







## **Module Details**

### **Module 1: Introduction to the role of a Piggery Farmer**

### **Bridge Module**

#### **Terminal Outcomes:**

• Discuss the job role of a Piggery Farmer.

Duration: 05:00	Duration: 0:00	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes	
<ul> <li>Describe the size and scope of the agriculture industry and its sub- sectors.</li> </ul>		
<ul> <li>Discuss the role and responsibilities of a Piggery Farmer.</li> </ul>		
<ul> <li>Identify various employment opportunities for a Piggery Farmer.</li> </ul>		
Classroom Aids		
Training Kit - Trainer Guide, Presentations, White	board, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements		
NA		







# Module 2: Process of coordinating the construction activities at the pig farm $Mapped\ to\ AGR/N4501\ v2.0$

#### **Terminal Outcomes:**

- Explain the process of selecting the site and planning the construction activities.
- Elucidate ways to coordinate the pig farm construction activities.

Duration: 10:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Elucidate the terminology used in pig farming.</li> <li>Explain the criteria for selecting a site for setting up a pig farm, e.g. a reliable supply of clean water, supply at a pig farm and proximity to the relevant markets.</li> </ul>	<ul> <li>Demonstrate the process of installing durable and strong fences around the pig farm to prevent the escaping of pigs.</li> <li>Demonstrate the process of installing appropriate bedding in the pig arks for the comfortable sleeping of pigs.</li> </ul>
<ul> <li>List the appropriate material required for the construction of a pig farm.</li> </ul>	
<ul> <li>Explain how to estimate space requirements of a pigsty.</li> </ul>	
<ul> <li>Explain the benefit of laying a concrete floor in the pens of a pig farm.</li> </ul>	
<ul> <li>State the appropriate bedding required for pigs.</li> </ul>	
<ul> <li>Explain the importance of ensuring adequate space, ventilation and effective drainage at a pig farm.</li> </ul>	
<ul> <li>State the appropriate considerations to be made while setting up feeders and water troughs at a pig farm.</li> </ul>	
<ul> <li>Explain the importance of ensuring protection from adverse weather for pigs.</li> </ul>	
<ul> <li>Elucidate the potential hazards in the construction activities and how to mitigate them, e.g. use of appropriate PPE while handling sharp tools and electrical equipment.</li> </ul>	
<ul> <li>Explain the importance of cleaning the site after the construction activities and storing hazardous tools, equipment and materials safely in a storage.</li> </ul>	







• Discuss the regulations applicable to the construction of animal housing facilities.

#### **Classroom Aids**

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

#### **Tools, Equipment and Other Requirements**

Ear Tag, Feeding material for pig, Disinfectants, Pigs and piglets, Record book, Purchase book, Hoof trimmer, Respiratory Masks, Pig shed, Inventory Register/ book, Helmet, Rubber gloves, Safety Shoes, First aid box, Fire Extinguisher, Installed Video camera with high resolution and recording facility, Pig board







# Module 3: Process of undertaking feed and health management and marketing of pigs

Mapped to ARG/N4504 v2.0

#### **Terminal Outcomes:**

- Describe the process of performing feed management of pigs.
- Elucidate ways to maintain the health of pigs.
- Elucidate ways to market the pigs.

Duration: 25:00	Duration: 35:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Explain the applicable health and safety requirements in pig farming and the relevant regulations concerning the health and welfare of livestock.</li> </ul>	<ul> <li>Demonstrate the process of preparing the pig feed using the recommended ingredients to meet the varied nutritional needs of pigs.</li> </ul>
List the appropriate ingredients to be used to prepare the pig feed to meet their nutritional requirements.	Show how to use the appropriate feeders and water troughs to feed and water pigs, maintaining the cleanliness of feeders and water
<ul> <li>State the recommended feeding schedule for feeding pigs.</li> </ul>	troughs to prevent the spread of food-borne diseases in pigs.
<ul> <li>State the water requirements of pigs and the importance of watering them with clean and fresh water.</li> </ul>	<ul> <li>Demonstrate the process of carrying out creep feeding and fostering in piglets when necessary.</li> </ul>
<ul> <li>Explain the appropriate corrective measures to be taken for feeding- related issues in pigs.</li> </ul>	<ul> <li>Show how to monitor pigs during their feeding and identify pigs not feeding or feeding inadequately.</li> </ul>
<ul> <li>Elucidate the appropriate preventive measures to be followed to protect pigs from parasites and relevant diseases.</li> </ul>	<ul> <li>Show how to maintain cleanliness in the feed/feed ingredient storage and apply the appropriate pesticides to prevent pest/rodent infestations.</li> </ul>
<ul> <li>Explain the symptoms of disease and disorders in pigs, e.g. loss of appetite, rapid breathing, high body temperature, inflammation of eyes,</li> </ul>	<ul> <li>Show how to monitor the pigs for signs of diseases and disorders, e.g. loss of appetite, rapid breathing, high body temperature, etc.</li> </ul>
dull skin & hair, limped tail, skin irritation, severe diarrhoea, etc.	Demonstrate the process of treating the pigs for common diseases and
<ul> <li>Explain the basic anatomy and physiology of pigs.</li> </ul>	disorders with the appropriate medication.
State the normal body temperature and pulse rate of pigs.	<ul> <li>Demonstrate the process of carrying out deworming following the recommended deworming schedule.</li> </ul>
<ul> <li>Explain various body parts of pigs on which vital parameters are recorded and the use of relevant equipment.</li> </ul>	<ul> <li>Demonstrate the process of maintaining the cleanliness of pigs by washing them regularly using the</li> </ul>







- Explain the appropriate medication to be used to treat pigs for common diseases and disorders.
- Explain the importance of seeking prompt assistance from a veterinarian to treat pigs when required.
- State the applicable vaccination schedule for pigs and the importance of ensuring timely vaccination.
- Discuss the appropriate bio-security procedures to be followed to control the spread of zoonotic diseases among pigs.
- Explain the appropriate measures to be taken to protect piglets from common health issues and minimize mortality among them.
- Explain the importance of determining the market demand for pigs for their effective marketing.
- Explain how to determine the demand for pigs.
- State the appropriate mode of transport to be used to deliver pigs safely and in hygienic condition to the buyers.

- appropriate animal care products.
- Demonstrate the use of the appropriate Personal Protection Equipment (PPE) in the pig farm operations to ensure self-protection from the relevant health and safety hazards.
- Demonstrate how to process the payments using the appropriate epayment methods.
- Demonstrate the process of maintaining the relevant manual and electronic records.

#### **Classroom Aids**

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

#### **Tools, Equipment and Other Requirements**

Ear Tag, Feeding material for pig, Disinfectants, Pigs and piglets, Record book, Purchase book, Hoof trimmer, Respiratory Masks, Pig shed, Inventory Register/ book, Helmet, Rubber gloves, Safety Shoes, First aid box, Fire Extinguisher, Installed Video camera with high resolution and recording facility, Pig board







### Module 4: Process of procuring and maintaining pigs for breeding Mapped to AGR/N4502 v2.0

#### **Terminal Outcomes:**

- Explain the process of procuring pigs for breeding.
- Elucidate ways to maintain the procured pigs.

Duration: 15:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Explain the criteria for procuring boars and sows for breeding.</li> <li>State the appropriate varieties of boars and sows/gilts, e.g. Large White Yorkshire, Landrace, Middle White Yorkshire, etc.</li> <li>Elucidate the importance and process of checking the health and maturity of boars and sows/gilts during their procurement.</li> <li>Explain the importance of maintaining the records concerning the procurement and health examination of boars and sows/gilts.</li> <li>State the appropriate housing required for boars and sows/gilts.</li> <li>State the feed and water requirements of boars and sows/gilts to prepare them for breeding.</li> <li>Explain the importance of seeking the help of a veterinarian for the health management of the breeding lot.</li> </ul>	<ul> <li>Demonstrate the process of maintaining the appropriate records concerning the procurement and health examination of boars and sows/gilts.</li> <li>Show how to monitor the procured boars and sows/gilts for signs of disease and disorders.</li> <li>Demonstrate how to identify unhealthy boars and sows/gilts, and treat them appropriately.</li> </ul>

#### Classroom Aids

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

#### **Tools, Equipment and Other Requirements**

Ear Tag, Feeding material for pig, Disinfectants, Pigs and piglets, Record book, Purchase book, Hoof trimmer, Respiratory Masks, Pig shed, Inventory Register/ book, Helmet, Rubber gloves, Safety Shoes, First aid box, Fire Extinguisher, Installed Video camera with high resolution and recording facility, Pig board







### Module 5: Process of undertaking the breeding of pigs Mapped to AGR/N4503 v2.0

#### **Terminal Outcomes:**

- Explain the process of preparing for pig breeding.
- Describe the process of carrying out pig breeding.

Duration: 15:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>List the tools, equipment and materials used in breeding.</li> <li>Elucidate the natural mating and artificial insemination breeding techniques and the applicable requirements.</li> </ul>	<ul> <li>Demonstrate how to conduct the appropriate health checks on the selected boars and sows/gilts before breeding and take appropriate measures as required.</li> <li>Show how to monitor the sows/gilts</li> </ul>
<ul> <li>Explain the advantages and disadvantages of natural breeding and artificial insemination.</li> </ul>	for the signs of stress and injury during mating and take appropriate remedial measures.
<ul> <li>State the appropriate precautions to be taken during pig breeding.</li> </ul>	<ul> <li>Show how to feed the sows/gilts with the recommended diet during their pregnancy to ensure their nutrient</li> </ul>
<ul> <li>Explain the importance of maintaining the recommended boars to sows/gilts ration for optimum fertility.</li> </ul>	<ul> <li>requirements are met.</li> <li>Demonstrate the process of preparing the farrowing pens by cleaning and disinfecting them.</li> </ul>
<ul> <li>Explain how to determine the occurrence of heat period in sows/gilts.</li> </ul>	<ul> <li>Show how to monitor the sows/gilts during farrowing, allowing it to occur naturally without any help.</li> </ul>
<ul> <li>Explain how to induce the onset of heat period in sows/gilts.</li> </ul>	Demonstrate how to conduct appropriate health check-ups on the
<ul> <li>Explain the appropriate pre-mating health checks to be conducted on the selected breeding stocks before breeding as per relevant animal husbandry standards.</li> </ul>	newborn piglets, e.g. injury and disease, and take appropriate remedial measures.
<ul> <li>Explain the importance of monitoring sows/gilts during mating.</li> </ul>	
<ul> <li>State the nutrient requirements of sows/gilts during their pregnancy.</li> </ul>	
<ul> <li>Explain how to determine the estimated date of farrowing and the appropriate arrangements required for farrowing.</li> </ul>	
<ul> <li>Elucidate the process of farrowing and the appropriate action to be</li> </ul>	







taken during furrowing when sows/gilts experience difficulty.

 State the appropriate care to be given to the newborn piglets and their nutritional requirements.

#### **Classroom Aids**

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

#### **Tools, Equipment and Other Requirements**

Ear Tag, Feeding material for pig, Disinfectants, Pigs and piglets, Record book, Purchase book, Hoof trimmer, Respiratory Masks, Pig shed, Inventory Register/ book, Helmet, Rubber gloves, Safety Shoes, First aid box, Fire Extinguisher, Installed Video camera with high resolution and recording facility, Pig board







### Module 6: Process of undertaking the fattening of pigs Mapped to AGR/N4506 v2.0

#### **Terminal Outcomes:**

- Explain the process of procuring the fatteners.
- Describe the process of performing nutrient and health management of fatteners.

Duration: 15:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Explain the types of pig housing and different types of materials used in them</li> <li>the tools and equipment used in livestock management.</li> <li>Explain the characteristics, e.g. size, shape and colour, of different pig breeds.</li> <li>Elucidate the different classifications of pig breeds, e.g. exotic, local and cross-breed.</li> <li>Explain the signs of healthy and unhealthy pigs.</li> </ul>	<ul> <li>Demonstrate the process of maintaining records concerning the procurement of fatteners and their health assessment.</li> <li>Show how to prepare and feed the fatteners with the appropriate feed containing the necessary nutrients for their healthy growth and fattening.</li> <li>Show how to monitor the fatteners during feeding to ensure their optimum feeding and follow the appropriate measures to minimize the wastage of feed.</li> </ul>
<ul> <li>Explain the importance of a multi-livestock farming model such as fishery and piggery.</li> <li>Discuss the safe work practices to be followed while rearing litters for breeding.</li> <li>Explain the importance of procuring piglets for fattening from the government-approved sources.</li> <li>Explain the criteria for procuring piglets for fattening.</li> <li>Explain the appropriate checks to be conducted while procuring fatteners.</li> <li>State the appropriate housing facilities required for fatteners.</li> <li>Explain the importance of maintaining the appropriate temperature in the fattening pens.</li> <li>Explain the feed and nutritional requirements of fatteners for their healthy growth.</li> </ul>	<ul> <li>Demonstrate how to conduct regular inspections of the fatteners and identify the signs of diseases, disorders, parasitic infections, and injuries.</li> <li>Demonstrate the process of treating the fatteners by providing them appropriate treatment.</li> <li>Show how to maintain cleanliness in the fattening pens, removing the animal and other waste regularly.</li> <li>Show how to monitor the fatteners and prevent them from scavenging.</li> <li>Demonstrate how to check the growth of fatteners and determine if they are mature for marketing.</li> </ul>







- Explain the importance of monitoring the fatteners during feeding.
- Explain the importance of effectively monitoring and maintaining the health of fatteners.
- State the fatteners maturity indicators.

#### **Classroom Aids**

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

#### **Tools, Equipment and Other Requirements**

Ear Tag, Feeding material for pig, Disinfectants, Pigs and piglets, Record book, Purchase book, Hoof trimmer, Respiratory Masks, Pig shed, Inventory Register/ book, Helmet, Rubber gloves, Safety Shoes, First aid box, Fire Extinguisher, Installed Video camera with high resolution and recording facility, Pig board







# Module 7: Hygiene and cleanliness Mapped to NOS AGR/N9903 v3.0

#### **Terminal Outcomes:**

- Discuss how to adhere to personal hygiene practices.
- Demonstrate ways to ensure cleanliness around the workplace.

Duration: 02:00	Duration: 10:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Explain the requirements of personal health, hygiene and fitness at work.</li> <li>Describe common health-related guidelines laid down by the organizations/ Government at the workplace</li> </ul>	<ul> <li>Demonstrate personal hygiene practices to be followed at the workplace.</li> <li>Demonstrate the correct way of washing hands using soap and water, and alcohol-based hand rubs.</li> </ul>
<ul> <li>Explain the importance of good housekeeping at the workplace.</li> </ul>	<ul> <li>Demonstrate the steps to follow to put on and take off a mask safely.</li> </ul>
<ul> <li>Explain the importance of informing the designated authority on personal health issues related to injuries and infectious diseases.</li> </ul>	<ul> <li>Show how to sanitize and disinfect one's work area regularly.</li> </ul>
	Demonstrate adherence to workplace sanitization norms.
	Show how to ensure the cleanliness of the work area.

#### **Classroom Aids:**

Computer, Projection Equipment, PowerPoint Presentation and Software, Facilitator's Guide, Participant's Handbook.

#### **Tools, Equipment and Other Requirements**

Personal Protective Equipment, Cleaning Equipment and Materials, Sanitizer, Soap, Mask







# Module 8: Safety and emergency procedures Mapped to NOS AGR/N9903 v3.0

#### **Terminal Outcomes:**

- Describe how to adhere to safety guidelines.
- Show how to administer appropriate emergency procedures.

Duration: 03:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>List the Personal Protective Equipment (PPE) required at the workplace.</li> </ul>	<ul> <li>Check various areas of the workplace for leakages, water-logging, pests, fire, etc.</li> </ul>
<ul> <li>Describe the commonly reported hazards at the workplace.</li> </ul>	<ul> <li>Demonstrate how to safely use the PPE and implement it as applicable to the workplace.</li> </ul>
<ul> <li>Describe the hazards caused due to chemicals/pesticides/fumigants.</li> </ul>	<ul> <li>Display the correct way of donning,</li> </ul>
<ul> <li>Describe the basic safety checks to be done before the operation of any equipment/machinery.</li> </ul>	doffing and discarding PPE such as face masks, hand gloves, face shields, PPE suits, etc.
Describe the common first aid procedures to be followed in case of	<ul> <li>Sanitize the tools, equipment and machinery properly.</li> </ul>
<ul> <li>emergencies.</li> <li>State measures that can be taken to</li> </ul>	<ul> <li>Demonstrate the safe disposal of waste.</li> </ul>
prevent accidents and damage s at the workplace.	<ul> <li>Demonstrate procedures for dealing with accidents, fires and emergencies.</li> </ul>
<ul> <li>Explain the importance of reporting details of first aid administered, to the reporting officer/doctor, in accordance with workplace</li> </ul>	<ul> <li>Demonstrate emergency procedures to the given workplace requirements.</li> </ul>
procedures	<ul> <li>Demonstrate the use of emergency equipment in accordance with</li> </ul>
State common health and safety guidelines to be followed at the	manufacturers' specifications and workplace requirements.
workplace.	<ul> <li>Demonstrate the administration of first aid.</li> </ul>
	<ul> <li>Prepare a list of relevant hotline/ emergency numbers</li> </ul>
Classroom Aids:	

#### **Classroom Aids:**

Computer, Projection Equipment, PowerPoint Presentation and Software, Facilitator's Guide, Participant's Handbook.

#### **Tools, Equipment and Other Requirements**

Personal Protective Equipment, First Aid Kit, Equipment used in Medical Emergencies.







# Module 9: Employability Skills Mapped to NOS DGT/VSQ/N0101 v1.0

Duration: 30:00

#### **Key Learning Outcomes**

#### **Introduction to Employability Skills Duration: 1 Hour**

After completing this programme, participants will be able to:

1. Discuss the importance of Employability Skills in meeting the job requirements

#### **Constitutional values - Citizenship Duration: 1 Hour**

- 2. Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.
- 3. Show how to practice different environmentally sustainable practices

#### **Becoming a Professional in the 21st Century Duration: 1 Hours**

- 4. Discuss 21st century skills.
- 5. Display positive attitude, self -motivation, problem solving, time management skills and continuous learning mindset in different situations.

#### **Basic English Skills Duration: 2 Hours**

6. Use appropriate basic English sentences/phrases while speaking

#### **Communication Skills Duration: 4 Hour**

- 7. Demonstrate how to communicate in a well -mannered way with others.
- 8. Demonstrate working with others in a team

#### **Diversity & Inclusion Duration: 1 Hour**

- 9. Show how to conduct oneself appropriately with all genders and PwD
- 10. Discuss the significance of reporting sexual harassment issues in time

#### **Financial and Legal Literacy Duration: 4 Hours**

- 11. Discuss the significance of using financial products and services safely and securely.
- 12. Explain the importance of managing expenses, income, and savings.
- 13. Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws

#### **Essential Digital Skills Duration: 3 Hours**

- 14. Show how to operate digital devices and use the associated applications and features, safely and securely
- 15. Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely

#### **Entrepreneurship Duration: 7 Hours**

16. Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges

Page 2 of 6

#### **Customer Service Duration: 4 Hours**

- 17. Differentiate between types of customers
- 18. Explain the significance of identifying customer needs and addressing them







19. Discuss the significance of maintaining hygiene and dressing appropriately

#### **Getting ready for apprenticeship & Jobs Duration: 2 Hours**

- 20. Create a biodata
- 21. Use various sources to search and apply for jobs
- 22. Discuss the significance of dressing up neatly and maintaining hygiene for an interview
- 23. Discuss how to search and register for apprenticeship opportunities







#### **Module 10: On-the-Job Training**

**Mapped to Piggery Farmer** 

Mandatory Duration: 30:00 Recommended Duration: 00:00

**Location: On-Site** 

#### **Terminal Outcomes**

- Explain the terminology used in pig farming.
- Explain the criteria for selecting a site for setting up a pig farm.
- Install durable and strong fences around the pig farm to prevent the escaping of pigs.
- Install appropriate bedding in the pig arks for the comfortable sleeping of pigs.
- Use the appropriate feeders and water troughs to feed and water pigs.
- Maintain cleanliness in the feed/feed ingredient storage and apply the appropriate pesticides to prevent pest/rodent infestations.
- Carry out deworming following the recommended deworming schedule.
- Use the appropriate Personal Protection Equipment (PPE) in the pig farm operations to ensure self-protection from the relevant health and safety hazards







## **Annexure**

## **Trainer Requirements**

Trainer Prerequisites						
Minimum Educational	Specialization	Relevant Industry Experience		Training Experience		Remarks
Qualification		Years	Specialization	Years	Specialization	
Diploma	Regular Diploma more than 15 months in veterinary /Animal Husbandry/ Dairying	5	Small ruminant rearing	0		
Graduate	B.Sc. Agriculture	4	Small ruminant rearing	0		For school Program minimum qualification of Trainer should be Graduate in (Agriculture/ Zoology). Their Teaching experience will be considered industry experience
B. Tech	B. Tech (Dairy)	3	Small ruminant rearing	0		
Graduate	B. V. Sc.	1	Small ruminant rearing	0		
Post Graduate	M. V Sc / MSc (Animal science)	0		0		

Trainer Certification				
Domain Certification	Platform Certification			
Certified for Job Role " <b>Piggery Farming</b> ", mapped to QP: "AGR/Q4502, v2.0", 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	
Graduation	B. V. Sc.	4	In Animal Science/ Veterinary Science / related experience	0		Practical skills and knowledge required in rearing pigs
Post- Graduation	M. V. Sc	2	In Animal Science/ Veterinary Science / related experience	0		Practical skills and knowledge required in rearing pigs
Ph. D	Veterinary Science/ Animal Husbandry/ Veterinary Clinical Medicine/ Veterinary Clinical Sciences	1	In Animal Science/ Veterinary Science / related experience	0		Practical skills and knowledge required in rearing pigs

Assessor Certification			
Domain Certification	Platform Certification		
Certified for Job Role " <b>Piggery Farming</b> ", mapped to QP: "AGR/Q4502, v2.0", 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. <u>Multiple Choice Questions</u>: To assess basic knowledge (Objective/Subjective)
- 2. <u>Viva:</u> To assess awareness on processes (Oral and/or written questioning)
- 3. <u>Practical:</u> 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 empaneled 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.
- <u>Video Calls</u>: 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
- <u>Evening Check (Post Assessment)</u>: Calls are made to the ground team to ensure the event is over by what time and the documentation is done properly or not.
- <u>TP Calling</u>: 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
- <u>Video and Picture Evidence:</u> 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.
- <u>Surprise Visit:</u> 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 rolespecific 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
Declarative	Declarative knowledge refers to facts, concepts and principles that need to
Knowledge	be known and/or understood in order to accomplish a task or to solve a problem.
Key Learning	Key learning outcome is the statement of what a learner needs to know,
Outcome	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).
OJT (M)	On-the-job training (Mandatory); trainees are mandated to complete
	specified hours of training on site
OJT (R)	On-the-job training (Recommended); trainees are recommended the
	specified hours of training on site
Procedural	Procedural knowledge addresses how to do something, or how to perform a
Knowledge	task. It is the ability to work, or produce a tangible work output by applying
	cognitive, affective or psychomotor skills.
Training Outcome	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
NOS	National Occupational Standard (s)
NSQF	National Skills Qualifications Framework
OJT	On-the-job Training
QP	Qualifications Pack
PwD	People with Disability
PPE	Personal Protective Equipment