



Model Curriculum

QP Name: Agriculture Field Officer

QP Code: AGR/Q7701

Version: 3.0

NSQF Level: 4

Model Curriculum Version: 2.0

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

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Training Parameters

Sector	Agriculture
Sub-Sector	Agriculture Industries
Occupation	Agriculture Credit & Insurance
Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	NCO-2015/2412.0501
Minimum Educational Qualification and Experience	<p>Minimum Educational Qualification: 12th grade pass OR Completed 2nd year of 3-year diploma (after 10th) and pursuing regular diploma OR 10th grade pass plus 2-year NTC OR 10th grade pass plus 1-year NTC plus 1 year NAC OR 8th pass plus 2-year NTC plus 1-Year NAC plus CITS OR 10th grade pass and pursuing continuous schooling OR 10th Grade Pass with 2-year relevant experience OR Previous relevant Qualification of NSQF Level 3.0 with minimum education as 8th Grade pass with 3- year relevant experience OR Previous relevant Qualification of NSQF Level 3.5 with 1.5- year relevant experience</p>
Pre-Requisite License or Training	NA
Minimum Job Entry Age	20 Years
Last Reviewed On	24/02/2022
Next Review Date	24/02/2025
NSQC Approval Date	24/02/2022
QP Version	3.0
Model Curriculum Creation Date	24/02/2022

Model Curriculum Valid Up to Date	24/02/2025
Model Curriculum Version	2.0
Minimum Duration of the Course	390 Hours
Maximum Duration of the Course	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 to:

- Describe the process of identifying potential borrowers and determining their eligibility for the loan.
- Describe the process of assisting in the processing of loan applications.
- Demonstrate the process of monitoring loan repayments and carrying out documentation.
- Explain the basic entrepreneurial activities for small enterprise.
- Describe the process of undertaking employability and entrepreneurial practices.
- Explain the importance of following inclusive practices for all genders and PwD at work.
- Demonstrate various practices to maintain health, hygiene and safety at the workplace.

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	0:00	0:00	05:00
Module 1: Introduction to the role of an Agriculture Field Officer	05:00	0:00	0:00	0:00	05:00
AGR/N7701 Identify the potential borrowers and determine their eligibility for loan NOS Version- 2.0 NSQF Level- 4	35:00	50:00	0:00	0:00	85:00
Module 2: Process of identifying potential borrowers and determining their eligibility for the loan	35:00	50:00	0:00	0:00	85:00
AGR/N7703 Assist in the processing of loan and insurance policy applications NOS Version- 2.0 NSQF Level- 4	30:00	60:00	0:00	0:00	90:00
Module 3: Process of assisting in the processing of	30:00	60:00	0:00	0:00	90:00

loan and insurance policy applications					
AGR/N7704 Monitor the loan repayments and assist with insurance premium payments and claims NOS Version- 1.0 NSQF Level- 4	30:00	60:00	0:00	0:00	90:00
Module 4: Process of monitoring loan repayments and assisting with insurance premium payments and claims	30:00	60:00	0:00	0:00	90:00
AGR/N9903 Maintain health and safety at the workplace NOS Version- 3.0 NSQF Level-4	20:00	10:00	0:00	0:00	30:00
Module 5: Hygiene and cleanliness	03:00	03:00	0:00	0:00	06:00
Module 6: Safety and emergency procedures	17:00	07:00	0:00	0:00	24:00
DGT/VSQ/N0102 Employability Skills NOS Version-1.0 NSQF Level-4	60:00	00:00	0:00	0:00	60:00
Module 9: Employability Skills	60:00	00:00	0:00	0:00	60:00
Total Duration	180:00	180:00	0:00	0:00	360:00
OJT: 30 hours					

Module Details

Module 1: Introduction to the role of an Agriculture Field Officer

Bridge Module

Terminal Outcomes:

- Discuss the job role of an Agriculture Field Officer.

Duration: 05:00	Duration: 0:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe the size and scope of the Agriculture industry and its sub-sectors. • Discuss the role and responsibilities of an Agriculture Field Officer. • Identify various employment opportunities for an Agriculture Field Officer. 	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
NA	

Module 2: Process of identifying potential borrowers and determining their eligibility for the loan

Mapped to AGR/N7701 v2.0

Terminal Outcomes:

- Describe the process of identifying and connecting with potential borrowers.
- Describe the process of determining the eligibility for a loan.

Duration: 35:00	Duration: 50:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain different types of agricultural loans. • Explain the economics of agricultural production. • Explain the terminologies used in the financial sector. • Explain the benefit and process of planning and executing outreach programs to connect with farmers in need of financial assistance. • Explain the benefit and process of identifying the target audience for loan services via co-operatives and Farmer Producer Organisations (FPOs). • Describe different methods of addressing farmers such as mass and one-on-one meetings. • Describe the process of creating a database of interested farmers and preparing a list of farmers with the likelihood of being accepted for the relevant loan product. • Explain various factors to be assessed to determine the creditworthiness or eligibility of an individual for a loan such as the number of dependents, sources of income, financial. • liabilities, assets and their legal status, investments, credit history, etc. • Explain the importance of evaluating the relevant factors with an impact on agricultural production to assess the farmer's income and risk profile. 	<ul style="list-style-type: none"> • Demonstrate how to create a database of interested farmers, recording all the relevant information to be able to determine their eligibility for the loan. • Show how to prepare a list of farmers with the likelihood of being accepted for the relevant loan product based on the initial information shared by them, such as their income and the ability to repay the loan. • Demonstrate how to document the farmer's personal information such as the number of dependents, sources of income, assets, financial liabilities, investments, etc.

<ul style="list-style-type: none"> • Explain the importance of ensuring the farmer has collateral or a guarantee to offer for the loan. • Explain the applicable insurance products that may be offered to farmers such as personal loan, accidental death coverage, health insurance, crop insurance, etc. • Describe the process of applying for relevant insurance products. 	
<p>Classroom Aids</p>	
<p>Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop</p>	
<p>Tools, Equipment and Other Requirements</p>	
<p>NA</p>	

Module 3: Process of assisting in the processing of loan and insurance policy applications

Mapped to ARG/N7703 v2.0

Terminal Outcomes:

- Describe the process of assisting the farmer with documentation for the loan application.
- Describe the process of preparing the loan application file.
- Describe the process of assisting with the processing of loan applications.
- Describe the process of assisting with the processing of insurance policy applications.
- Demonstrate various practices for effective resource optimisation.
- Demonstrate various waste management practices.

Duration: 30:00	Duration: 60:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain different types of forms to be filled in for an agricultural loan application and the required documents. • Explain the applicable organisational standards for the loan approval process. • Explain different pieces of information to be captured in a loan application form. • Explain the importance of submitting a complete file to the credit officer containing all the required information and documents for the processing of the loan application. • Explain the importance of carrying out the due diligence process to verify all the information. • submitted by the farmer for the loan application. • Describe the process of performing a reference check for an agricultural loan application. • Explain the importance of documenting the credit officer's feedback along with the decision made on the loan application. • Explain the importance of ensuring the farmer with the accepted loan application understands own responsibilities regarding the loan 	<ul style="list-style-type: none"> • Demonstrate the process of carrying out documentation, capturing all the required information such as the loan amount applied for, the purpose of taking the loan, preferred loan term, repayment schedule, etc. • Demonstrate how to prepare a loan application file containing all the required documents such as creditworthiness reports. • Demonstrate the process of maintaining the appropriate documentation regarding the feedback received from the credit officer, in compliance with the organisational policy. • Demonstrate the process of carrying out appropriate documentation regarding the acceptance or refusal of loan applications. • Demonstrate the process of setting up an appropriate mode of payment for the repayment of the loaned amount. • Demonstrate various practices to optimise the usage of various resources such as water and electricity. • Demonstrate the process of recycling and disposing different types of waste appropriately.

<p>along with all the applicable T&Cs.</p> <ul style="list-style-type: none"> • Explain the benefit of setting up an appropriate mode of payment for the repayment of the loaned amount. • Explain different types of insurance products available to farmers, such as crop, cattle, and personal health and life insurance. • State the relevant information and documents required for the processing of insurance policy applications. • Describe the procedure of insurance policy application processing. • Explain the benefits of resource optimisation. • Explain the importance of recycling and disposing different types of waste as per the applicable regulations. 	
<p>Classroom Aids</p>	
<p>Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop</p>	
<p>Tools, Equipment and Other Requirements</p>	
<p>NA</p>	

Module 4: Process of monitoring loan repayments and assisting with insurance premium payments and claims

Mapped to AGR/N7704 v1.0

Terminal Outcomes:

- Describe the process of monitoring and assisting with the use of the loaned amount.
- Describe the process of monitoring the repayment of the loaned amount.
- Describe the process of assisting with defaulted loans and write-offs.
- Describe the process of assisting with insurance premium payments and claims.
- Demonstrate the process of carrying out documentation and review.

Duration: 30:00	Duration: 60:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe the methods to monitor loan repayment. • Explain the importance of ensuring the sanctioned loan is used for the stated purpose. • Explain different ways of assisting farmers in the effective utilisation of the loaned amount. • Explain the benefits of assisting the farmers in establishing contact with vendors of agricultural inputs. • Explain the importance of checking with the borrowing farmers regularly if they are facing any issues with loan repayment, and addressing any queries or concerns. • Explain how to process cash payments received towards loan repayments and the necessary documentation to be carried out. • Describe the process of following up with the borrowing farmers regarding any missed repayments and informing them about the updated due amount including the applicable late payment fee, interest or any other charges. • Explain how to start the debt collection process for the recovery of the loaned amount from the borrowing farmers on defaulted loans. 	<ul style="list-style-type: none"> • Demonstrate how to process cash payments as per the organisational process. • Demonstrate the process of carrying out the mandatory documentation such as issuing cash payment receipts. • Demonstrate the process of carrying out cattle and crop loss assessment for insurance claims. • Show how to prepare various records such as loan portfolio review, repayment record, risk assessment, manually and/ or electronically using the physical registers and/ or the relevant computer application.

<ul style="list-style-type: none"> • Explain the criteria for writing off an agricultural loan in case a farmer is unable to repay it. • Explain various records to be maintained during the loan cycle such as loan portfolio review, payment record, risk assessment, etc. • Explain the importance of updating the loan portfolio of borrowing farmers based on their repayment records, associated risks, and any critical information that emerges during the term of the loan. • Explain the importance of effective coordination between farmers and insurance companies regarding the collection of insurance premiums to ensure uninterrupted insurance cover for farmers. • Describe the process of coordinating between farmers and insurance companies for insurance claim settlements. • Explain the importance of rating the borrowing farmers on the completion of the loan cycle according to their repayments, to be used for making decisions on any future loan or other financial product applications. 	
<p>Classroom Aids</p>	
<p>Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop</p>	
<p>Tools, Equipment and Other Requirements</p>	
<p>NA</p>	

Module 5: 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: 03:00	Duration: 03:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the requirements of personal health, hygiene and fitness at work. • Describe common health-related guidelines laid down by the organizations/ Government at the workplace. • Explain the importance of good housekeeping at the workplace. • Explain the importance of informing the designated authority on personal health issues related to injuries and infectious diseases. 	<ul style="list-style-type: none"> • Demonstrate personal hygiene practices to be followed at the workplace. • Demonstrate the correct way of washing hands using soap and water, and alcohol-based hand rubs. • Demonstrate the steps to follow to put on and take off a mask safely. • Show how to sanitize and disinfect one's work area regularly. • Demonstrate adherence to the 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 6: 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: 17:00	Duration: 07:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • List the Personal Protective Equipment (PPE) required at the workplace. • Describe the commonly reported hazards at the workplace. • Describe the hazards caused due to chemicals/pesticides/fumigants. • Describe the basic safety checks to be done before the operation of any equipment/machinery. • Describe the common first aid procedures to be followed in case of emergencies. • State measures that can be taken to prevent accidents and damage s at the workplace. • Explain the importance of reporting details of first aid administered, to the reporting officer/doctor, in accordance with workplace procedures. • State common health and safety guidelines to be followed at the workplace. 	<ul style="list-style-type: none"> • Check various areas of the workplace for leakages, water-logging, pests, fire, etc. • Demonstrate how to safely use the PPE and implements it as applicable to the workplace. • Display the correct way of donning, doffing and discarding PPE such as face masks, hand gloves, face shields, PPE suits, etc. • Sanitize the tools, equipment and machinery properly. • Demonstrate the safe disposal of waste. • Demonstrate procedures for dealing with accidents, fires and emergencies. • Demonstrate emergency procedures to the given workplace requirements. • Demonstrate the use of emergency equipment in accordance with manufacturers' specifications and workplace requirements. • Demonstrate the administration of first aid. • Prepare a list of relevant hotline/emergency numbers.
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 7: 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

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Diploma	Agriculture / Agri finance	3	Agriculture Financing	0		
Graduate	Graduate in any stream except in Agriculture & Agri-Allied sector	3	Agriculture Financing	0		For the school Program minimum qualification of the Trainer should be Graduate (in commerce/ Agriculture / Agri finance or related stream) Teaching experience of minimum 3 years. (will be considered industry experience)
Graduate	Agriculture & Agri-Allied / Agri finance and related streams	0.5	Agriculture Financing	0		
Post-Graduate	Agriculture/ Agriculture Extension/ Rural Development/ Agri Finance and related streams	0		0		
Trainer Certification						
Domain Certification				Platform Certification		
Certified for Job Role “ Agriculture Field Officer ”, mapped to QP: “AGR/Q7701, v3.0”, 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 MEPS guidelines is 80%.		

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
B.Sc.	Agriculture/ Agri finance and related streams	5	Agriculture/ Extension/ Agri Banking and Financing and related streams	0		Practical skills and knowledge required in agriculture loaning, banking products & latest technologies
Post-Graduation	Agri Finance	2	Agriculture/ Extension/ Agri Banking and Financing and related streams	0		Practical skills and knowledge required in agriculture loaning, banking products & latest technologies
M.Sc.	Agriculture/ Extension/ Rural Development/ Agri Finance and related streams	2	Agriculture/ Extension/ Agri Banking and Financing and related streams	0		Practical skills and knowledge required in agriculture loaning, banking products & latest technologies
PhD	Agriculture/ Extension/ Rural Development/ Agri Finance and related streams	1	Agriculture/ Extension/ Agri Banking and Financing and related streams	0		Practical skills and knowledge required in agriculture loaning, banking products & latest technologies

Assessor Certification	
Domain Certification	Platform Certification
Certified for Job Role “ Agriculture Field Officer ”, mapped to QP: “AGR/Q7701, v3.0”, 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 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 are 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 is 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 tools 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 the assessor and proctor are 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 candidates shall be stored and available for review (retained for 5 years/ till the conclusion of the project or scheme)

References

Glossary

Term	Description
Declarative Knowledge	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.
Key Learning Outcome	The 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).
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 Knowledge	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.
Training Outcome	The Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training.
Terminal Outcome	The 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
FPOs	Farmer Producer Organisations
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