



Model Curriculum

QP Name: Power Tiller Operator

QP Code: AGR/Q1103

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 Crop Production
Occupation	Farm Machinery, Equipment Operation and maintenance
Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	NCO-2015/8341.0200
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	18 Years
Last Reviewed On	27-05-2021
Next Review Date	27-05-2024
NSQC Approval Date	27-05-2021
QP Version	3.0
Model Curriculum Creation Date	27-05-2021

Model Curriculum Valid Up to Date	27-05-2024
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 preparing the power tiller for operation.
- Demonstrate the process of operating the power tiller for various farm operations.
- Demonstrate the process of performing various operations using the relevant power tiller attachments.
- Demonstrate the process of carrying out repair and maintenance of a power tiller.
- Explain the importance of practising inclusion and gender equality at the workplace.
- Demonstrate various practices to maintain personal hygiene, cleanliness 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	5:00	0:00	0:00	0:00	5:00
Module 1: Introduction and Orientation to the Role of a Power Tiller Operator	5:00	0:00	0:00	0:00	5:00
AGR/N1107 Prepare power tiller for operation NOS Version 2.0 NSQF Level-4	30:00	25:00	0:00	0:00	55:00
Module 2: Preparation of a power tiller for operation	30:00	25:00	0:00	0:00	55:00
AGR/N1108 Operate a power tiller for various farm operations NOS Version 2.0 NSQF Level-4	15:00	45:00	0:00	0:00	60:00

Module 3: Operation of a power tiller for various farm operations	15:00	45:00	0:00	0:00	60:00
AGR/N1110 Carry out various operations using power tiller attachments NOS Version 2.0 NSQF Level-4	10:00	20:00	0:00	0:00	30:00
Module 4: Execution of various farm operations using the relevant power tiller attachments	10:00	20:00	0:00	0:00	30:00
AGR/N1111 Carry out repair and maintenance of a power tiller NOS Version 2.0 NSQF Level-4	15:00	15:00	0:00	0:00	30:00
Module 5: Repair and maintenance of a power tiller	15:00	15:00	0:00	0:00	30:00
AGR/N9903 Maintain health and safety at the workplace NOS Version 3.0 NSQF Level-4	15:00	15:00	0:00	0:00	30:00
Module 6: Hygiene and cleanliness	3:00	3:00	0:00	0:00	6:00
Module 7: Safety and emergency procedures	12:00	12:00	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 8: Employability Skills	60:00	00:00	0:00	0:00	60:00
Total Duration	150:0	120:00	0:00	0:00	270:00
OJT: 120 hours					

Module Details

Module 1: Introduction and Orientation to the role of a Power Tiller Operator *Bridge Module*

Terminal Outcomes:

- Identify the scope of the agriculture industry and its sub-sectors.
- State the role and responsibilities of a Power Tiller Operator.
- List the career options available to a Power Tiller Operator.

Duration: 5:00	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. • State the role and responsibilities of a Power Tiller Operator. • Identify various employment opportunities for a Power Tiller Operator. 	NA
Classroom Aids	
Training kit - Trainer guide, presentations, whiteboard, marker, projector, laptop, video films	
Tools, Equipment and Other Requirements	
NA	

Module 2: Preparation of a power tiller for operation

Mapped to AGR/N1107 v2.0

Terminal Outcomes:

- Describe the process of conducting daily checks on a power tiller.
- Demonstrate the process of conducting daily check on a power tiller.

Duration: 30:00	Duration: 25:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe the Standard Operating Procedure (SOP) for testing a power tiller. • Explain the functions and design of various power tiller components. • Identify common problems and repair needs of a power tiller. • Describe the process of regular repair and maintenance of a power tiller. • Explain various adjustments required in a power tiller for its optimum performance. • State the importance of performing regular inspection and maintenance of various farm machineries. • Discuss the Dangerous Machines (Regulation) Act, 1983. 	<ul style="list-style-type: none"> • Demonstrate the basic activities to prepare the power tiller for operation. • Assess the oil pressure and air pressure in the tyres as per the recommended level. • Demonstrate the process of replacing the damaged guard/ any other component as per the operator's manual.
Classroom Aids	
Training kit (trainer guide, presentations), whiteboard, marker, projector, laptop	
Tools, Equipment and Other Requirements	
Engine, engine components, tools, power tiller, rotavator, seed drill, irrigation pump, reversible plough and trolley etc.	

Module 3: Operation of a power tiller for various farm operations

Mapped to AGR/N1108 v2.0

Terminal Outcomes:

- Describe the activities required to prepare the field for power tiller operations.
- Demonstrate the process of operating power tiller to perform various farm operations.

Duration: 15:00	Duration: 45:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the functions and advantages of using a power tiller. • Describe the process of operating a power tiller. • Identify the ideal conditions for operating a power tiller. • State the benefits of carrying out tilling in a pattern. • Explain the importance of applying fertilizers, sulphur and lime on the soil before tilling. • Explain the importance of ensuring self and others' safety during the power tiller operations. 	<ul style="list-style-type: none"> • Demonstrate the process of preparing the field for the power tiller operations. • Demonstrate the process of operating a power tiller to carry out various farm operations. • Demonstrate the process of carrying out tilling and cross tilling using a power tiller.
Classroom Aids	
Training kit (Trainer guide, Presentations). Whiteboard, Marker, projector, laptop	
Tools, Equipment and Other Requirements	
Power tiller, tools, attachments	

Module 4: Execution of various farm operations using the relevant power tiller attachments

Mapped to AGR/N1110 v2.0

Terminal Outcomes:

- Identify a variety of attachments to use with a power tiller to perform various farm operations.
- Demonstrate the process of attaching the relevant attachments to a power tiller and performing various farm operation.

Duration: 10:00	Duration: 20:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Identify different types of power tiller attachments and their use. • Describe the correct process of hitching and unhitching various attachments to a power tiller. • Identify common problems encountered while using a power tiller with attachments. • Describe the process of basic troubleshooting for common problems encountered while using a power tiller with attachments. 	<ul style="list-style-type: none"> • Demonstrate the correct process of hitching and unhitching various attachments to a power tiller. • Demonstrate the process of carrying out puddling by attaching cage wheels to a power tiller. • Demonstrate the process of cultivating the field by attaching a cultivator to a power tiller. • Demonstrate the process of applying seeds and fertilizers by attaching a seed-cum-fertilizer drill to a power tiller. • Demonstrate the process of reaping the crop by attaching a reaper to a power tiller. • Demonstrate the process of applying insecticides and pesticides by attaching a boom sprayer to a power tiller. • Demonstrate the process of slashing and shredding the crop by attaching slasher cum in-situ shredder to a power tiller.
Classroom Aids	
Training kit (Trainer guide, Presentations)	
Tools, Equipment and Other Requirements	
Plough, sub soiler, rotavator, seed cum fertilizer drill and planters, paddy planter and seed drill, Fertilizer applicator, power weeder, high clearance weeder, diggers, self propelled vertical	

Module 5: Repair and maintenance of a power tiller

Mapped to AGR/N1111 v2.0

Terminal Outcomes:

- Identify the repair and maintenance needs of a power tiller.
- Demonstrate the process of carrying out repair and maintenance of a power tiller.

Duration: 15:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the importance of carrying out regular repair and maintenance of a power tiller. • Identify various tools, equipment and spare parts required for the repair and maintenance of a power tiller. • State the maintenance schedule for different types of power tiller. • Explain the importance of maintaining the record of repair and maintenance. • Explain various adjustments required in a power tiller during the maintenance. • Describe the benefits of resource optimisation. • Identify common practices of conserving electricity while using electrical tools and equipment. 	<ul style="list-style-type: none"> • Demonstrate the process of checking a power tiller to identify its repair and maintenance needs. • Demonstrate the process of carrying out repair and maintenance of a power tiller by making necessary adjustments to it. • Prepare a sample record of power tiller’s repair and maintenance.
Classroom Aids	
Training kit (Trainer guide, Presentations)	
Tools, Equipment and Other Requirements	
Service tools, lubricant, spare parts	

Module 6: 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 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 7: 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: 12:00	Duration: 12:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • List the 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 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 8: 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	
12th Class	Class 12th with Science and having any Certificate in course in Farm Mechanization from recognized institutes	5	Agriculture Farm Machinery	0		Ex-Service-Man including Ex-Paramilitary personnel: Minimum Qualification is 10+2 with an Honourable Discharge/Pension. SSC would consider a relaxation/waiver of sector specific experience on case-to-case basis.
Diploma	Diploma (Mechanical / Agriculture engineering)	3	Agriculture Farm Machinery	0		
ITI	ITI (Mechanical / Agriculture engineering)	3	Agriculture Farm Machinery	0		
Graduate	Graduate (Agriculture)	1	Agriculture Farm Machinery	0		For school Program minimum qualification of Trainer should be Graduate (Agriculture / Physics). Their Teaching experience will be considered industry experience
B. Tech	B Tech in Mechanical / Agriculture engineering.	0		0		

Trainer Certification	
Domain Certification	Platform Certification
<p>Certified for Job Role “Power Tiller Operator”, mapped to QP: “AGR/Q1103, v3.0”, Minimum accepted score is 80%</p>	<p>Recommended that the Trainer is certified for the Job Role: “Trainer (Vet and Skills)”, mapped to the Qualification Pack: “MEP/Q2601, v2.0”. Minimum accepted score as per MEPSCguidelines is 80%.</p>

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
Graduation	B. Tech (Agriculture/ Agriculture Engineering/Mechanical Engineering/Farm Machinery)	5	Agriculture/Farm Machinery/Mechanical Engineering and related streams	0		Practical skills and knowledge required in maintenance of farm machinery
Graduation	B.Sc. (Agriculture / Agriculture Engineering and related streams)	5	Agriculture/Farm Machinery/Mechanical Engineering and related streams	0		Practical skills and knowledge required in maintenance of farm machinery
Post-graduation	M. Tech (Agriculture/ Agriculture Engineering/Mechanical Engineering/Farm Machinery)	2	Agriculture/Farm Machinery/Mechanical Engineering and related streams	0		Practical skills and knowledge required in maintenance of farm machinery
Post-graduation	M.Sc (Agriculture / Agriculture Engineering and related streams)	2	Agriculture/Farm Machinery/Mechanical Engineering and related streams	0		Practical skills and knowledge required in maintenance of farm machinery
PhD	PhD (Agriculture / Agriculture Engineering/Farm engineering and related streams)	1	Agriculture/Farm Machinery/Mechanical Engineering and related streams	0		Practical skills and knowledge required in maintenance of farm machinery

Assessor Certification	
Domain Certification	Platform Certification
<p>“Power Tiller Operator”, “AGR/Q1103, v3.0”, Minimum accepted score is 80%</p>	<p>Certified for the Job Role: “Assessor (Vet and Skills)”, mapped to the Qualification Pack: “MEP/Q2701, v2.0”, with a minimum score of 80%.</p>

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 ground through qualified and ToA certified assessors.

While it is important that an individual has adequate knowledge and skills to perform a specific task, weight age for different aspects for assessment are 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 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 assessment location.

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

- Multilingual assessments (ASCI is conducting 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 cloud
- Advanced auto-proctoring features – photographs, timestamp, geographic-tagging, toggle-screen/copy-paste disabled, etc.
- Android based monitoring system
- End to end process from allocation of a batch to result upload, there is no manual intervention

- Assessment will normally be fixed for a day after the end date of training / within 7 days of completion of training.
- Assessment will be conducted at the training venue
- 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 practical 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 question, etc. which will test the trainee on his theoretical knowledge of the subject.
- The theory, practical and viva assessments will be carried out on same day. In case of more number of candidates, 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 usability of job roles/advantages /importance of adherence to procedures. Viva will be used to gauge trainee's confidence and correct knowledge in handling 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, behavioral traits and domain knowledge.

Theoretical Knowledge - Item constructs and types are determined by 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 which 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 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 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, do's and don'ts, subjective questions to check understanding of practical tasks.

Assessor has to go through orientation program organized by Assessment Agency. The training would give an overview to the assessors on the overall framework of QP evaluation. Assessor shall be given a NOS and PC level overview of each QP as applicable. 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 which will maintain standardization of marking scheme.

Type of Evidence and Evidence Gathering Protocol:

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

- Geo Tagging to track ongoing assessment
- AA's coordinator emails the list of documents and evidences (photos and videos) to the assessor one day prior to the assessment. List is mentioned below:
 - Signed Attendance sheet
 - Assessor feedback sheet
 - Candidate feedback sheet
 - Assessment checklist for assessor
 - Candidate Aadhar/ID card verification
 - Pictures of 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, Technical assistant popularly known as Proctor also ensures the proper documentation and they verify each other's tasks.
- To validate their work on the day of assessment, regular calls and video calls are done.
- On-boarding and training of assessor and proctor is done on timely basis to ensure that 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 check on assessment quality and ensure assessment is carried out in fair and transparent manner
- Aadhar verification of candidates
- Evening Check (Post Assessment): Calls are made to the ground team to ensure event is over by what time and the documentation is done in proper manner or not.
- TP Calling: To keep check on malpractice activity, independent audit team calls to TP on recorded line to take confirmation if there was any malpractice activity observed in assessment on part of AA/SSC team. If calls are not connected, email is send to TP SPOC for taking their confirmation
- Video and Picture Evidence: Backend team collects video and pictures for assessment on real time basis and highlights any issue like, Students sitting idle/trainer allowed for helping out candidates during assessment.
- Surprise Visit: Time to time SSC/AA Audit team can visit the assessment location and do surprise audit for assessment process carried out by ground team.

- **Geo Tagging:** On day of assessment, each technical SPOC is required to login in our internal app which is Geo tagged. Any deviation with centre address needs to be highlighted to assessment team on real-time basis.

Method for assessment documentation, archiving, and Access:

- ASCI has 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 captured and stored in System with Time-Stamps at the end of AAs and SSC. NOS-wise and PC-wise scores can be generated.
- Maker Checker concept: 1 person prepares results and other audit result which is internally approved by AA at first and then gets vetted at the end of SSC
- All soft copy of documents is received from the on-ground tech team over mail. The same are downloaded by our internal backend team and saved in Repository. The repository consists of scheme wise folders. These scheme wise folders have 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 conclusion of project or scheme)

References

Glossary

Term	Description
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests
Key Learning	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
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.
Terminal Outcome	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