







Model Curriculum

QP Name: Greenhouse Installer

QP Code: AGR/Q1001

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	Precision Farming
Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	NCO-2015/6113.0501
Minimum Educational Qualification and Experience	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
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	25-11-2021
Next Review Date	25-11-2024
NSQC Approval Date	25-11-2021
QP Version	3.0
Model Curriculum Creation Date	25-11-2021







Model Curriculum Valid Up to Date	25-11-2024
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 for the installation of the greenhouse.
- Demonstrate the process of setting up the greenhouse as per the layout.
- Demonstrate the process of carrying out repair and maintenance of the greenhouse.
- Explain the importance of practising inclusion and gender equality at work.
- Demonstrate various practices to maintain personal hygiene, cleanliness and safety at work.

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 a Greenhouse Installer	5:00	00:00	0:00	0:00	05:00
AGR/N1001 Prepare for the greenhouse installation NOS Version- 2.0 NSQF Level- 4	25:00	30:00	0:00	0:00	55:00
Module 2: Preparation for the installation of the greenhouse	25:00	30:00	0:00	0:00	55:00
AGR/N1002 Install greenhouse as per the layout	20:00	70:00	0:00	0:00	90:00







NOS Version- 3.0 NSQF Level- 4					
Module 3: Installation of the greenhouse as per the layout	20:00	70:00	0:00	0:00	90:00
AGR/N1003 Carry out repair and maintenance of greenhouse NOS Version- 2.0 NSQF Level- 4	25:00	35:00	0:00	0:00	60:00
Module 4: Repair and maintenance of the greenhouse	25:00	35:00	0:00	0:00	60:00
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 5: Hygiene and cleanliness	03:00	03:00	0:00	0:00	06:00
Module 6: 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 9: Employability Skills	60:00	00:00	0:00	0:00	60:00
Total Duration	150:00	150:00	0:00	0:00	300:00

OJT: 90 hours







Module Details

Module 1: Introduction to the role of a Greenhouse Installer *Bridge Module*

Terminal Outcomes:

• Discuss the job role of a Greenhouse Installer.

Duration: 05:00	Duration: 0:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Describe the size and scope of the agriculture industry and its sub- sectors. 	
 Discuss the role and responsibilities of a Greenhouse Installer. 	
 Identify various employment opportunities for a Greenhouse Installer. 	
Classroom Aids	
Training kit - Trainer guide, Presentations, White	board, Marker, Projector, Laptop
Tools, Equipment and Other Requirements	
NA	







Module 2: Preparation for the installation of the greenhouse Mapped to AGR/N1001 v2.0

Terminal Outcomes:

- Explain the basics of protected cultivation in a greenhouse.
- Describe the process of planning the installation of a greenhouse.
- Demonstrate the process of assessing the site conditions and preparing the layout for the greenhouse.

Practical – Key Learning Outcomes		
 Show how to measure angles at the installation site and calculate the specifications of the foundation of the greenhouse. Demonstrate the process of preparing the layout for the greenhouse structure. 		

Classroom Aids

Training kit (Trainer guide, Presentations). Whiteboard, Marker, Projector, Laptop

Tools, Equipment and Other Requirements

Point Marking Sticks, Marking Powder or Whitewash Powder, Hoe, Spade, Land Survey Machine, GPS Handheld Survey Device, Ruler, Compass, Clinometer, Vernier Calliper, Greenhouse Structure, Plastic Film, Shed Net, Insect Net, Cooling Pad, Dripline with Sprinkler Set, Spray Machine, Screwdriver Set, Pliers Set, Measuring Tape, Welding Machine with Accessories, Exhaust Fan, Power Cutter, Drill Machine







Module 3: Installation of the greenhouse as per the layout *Mapped to ARG/N1002 v3.0*

Terminal Outcomes:

- Demonstrate the process of erecting the greenhouse structure and installing various equipment, nets and sheets.
- Demonstrate the process of setting up the fertigation system.
- Demonstrate various practices for effective resource optimisation.

Duration: 20:00	Duration: 70:00	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes	
Theory – key Learning Outcomes	Practical – key Learning Outcomes	
 Describe the process of preparing and erecting a firm and durable greenhouse structure. 	 Demonstrate the process of the preparing frame for the greenhouse structure as per the layout. 	
Explain the importance of installing an appropriate cooling or heating custom to maintain the optimum	 Show how to install insulated doors in the greenhouse. 	
system to maintain the optimum temperature in the greenhouse.	 Demonstrate the process of installing the appropriate cooling or 	
 Explain the benefits of installing a CO2 generator and fertigation system in the greenhouse. 	heating system according to the climatic conditions.	
Explain the importance of installing	 Show how to create adjustable vents in the greenhouse's ceiling. 	
 a thermometer in the greenhouse. Explain the benefits of resource optimisation. 	 Demonstrate the process of installing install a CO2 generator and thermometer in the greenhouse. 	
	 Demonstrate the process of installing nets as per the shading requirement of the greenhouse. 	
	 Show how to apply sheet cover of the prescribed material on the greenhouse structure. 	
	 Demonstrate the process of setting up the fertigation system. 	
	 Demonstrate various practices to optimise the usage of various resources such as water and electricity. 	
Classroom Aids		

Classroom Aids

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

Tools, Equipment and Other Requirements

Shed Net, Insect Net, Cooling Pad, Dripline with Sprinkler Set, Spray Machine, Screwdriver Set, Pliers Set, Welding Machine with Accessories, Exhaust Fan, Power Cutter, Drawing Sheet, Pen, Pencil, Rubber, Drill Machine, Spanner, Ratchet, Screwdriver, Wire Rope Puller







Module 4: Repair and maintenance of the greenhouse Mapped to AGR/N1003 v2.0

Terminal Outcomes:

- Demonstrate the process of carrying out repair and maintenance of the greenhouse.
- Demonstrate various waste management practices.

Duration: 25:00	Duration: 35:00		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
 State various routine maintenance activities of a greenhouse structure. Explain the importance of sanitising 	 Show how to sterilise the greenhouse structure, pots, containers, propagation benches, capillary 		
relevant parts and components of a greenhouse using the approved disinfectants.	 matting and floor. Show how to tighten nuts and bolts in the greenhouse structure 		
 Explain the importance of cleaning the greenhouse sheets to allow sunlight to get through. 	appropriately and apply grease on the metal parts.Demonstrate the process of carrying		
Explain the importance of checking the greenhouse structure regularly to identify its repair and maintenance	out maintenance of the cooling/ heating and fertigation systems as per their maintenance schedule.		
needs.	 Show how to repair or replace lighting in the greenhouse. 		
 Explain the importance of recycling and disposing different types of waste as per the applicable regulations. 	 Demonstrate the process of recycling and disposing different types of waste. 		

Classroom Aids

Training kit (Trainer Guide, Presentations)

Tools, Equipment and Other Requirements

Ratchet, Wire Puller, Spanner, Nuts and Bolts Screws, Lubricants like Grease, supporting ladder, Nylon Ropes, Wire Cutter, Plastic Wiper, Hammer, Screw Driver, Sealing Material like silicon, Greenhouse fitter, Cut Material of Greenhouse Plastics for patchwork, Cut Material of Shading Net / thermal net for patchwork







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

 Explain the requirements of personal health, hygiene and fitness at work. Describe common health-related guidelines laid down by the Deroman health-related be being being	 Key Learning Outcomes monstrate personal hygiene ctices to be followed at the rkplace.
 health, hygiene and fitness at work. Describe common health-related guidelines laid down by the pra work work Describe 	ctices to be followed at the
	monstrate the correct way of
-	shing hands using soap and water, I alcohol-based hand rubs.
	nonstrate the steps to follow to on and take off a mask safely.
the designated authority on personal one	w how to sanitize and disinfect e's work area regularly.
intections diseases	monstrate adherence to the rkplace sanitization norms.
	w how to ensure the cleanliness he 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: 12:00	Duration: 12:00			
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes			
 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	 Demonstrate emergency procedures to the given workplace requirements. 			
 State common health and safety guidelines to be followed at the workplace. 	 Demonstrate the use of emergency equipment in accordance with manufacturers' specifications and workplace requirements. Demonstrate the administration of 			
Classroom Aids:	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	Specialization	Relev	ant Industry	Training		Remarks	
Educational		Exper	ience	Exper	ience		
Qualification		Years	Specialization	Years	Specialization		
12th Class	Science	5	Operation of Greenhouse	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 a case-to-case basis.	
Diploma	Civil/ Mechanical / Fitter	3	Operation of Greenhouse	0			
ITI	Civil/ Mechanical/ Fitter	3	Operation of Greenhouse	0			
Graduate	Graduate in any stream except Agriculture/ Horticulture/ Botany/ Forestry	3	Operation of Greenhouse	0			
Graduate	Agriculture/ Horticulture/ Botany/ Forestry	1	Operation of Greenhouse	0		For the school Program minimum qualification of the Trainer should be Graduate (Agriculture / Horticulture / Botany/ Forestry) with minimum 3 years Teaching experience (Will be considered industry experience)	
Certificate	CITS/ NCIC Pass-Fitter	1	Operation of Greenhouse	0			
B. Tech	Mechanical/ Civil	1	Operation of Greenhouse	0			
B. Tech	Agriculture engineering	0.5		0			







Trainer Certification		
Domain Certification	Platform Certification	
Certified for Job Role " Greenhouse Installer ", mapped to QP: "AGR/Q1001, 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 MEPSC guidelines is 80%.	







Assessor Requirements

	Assessor Prerequisites					
Minimum Educational	nal		Relevant Industry Experience		ng/Assessment ence	Remarks
Qualification		Years	Specialization	Years	Specialization	
B. Tech	Agriculture/ Agriculture Engineering/ Mechanical Engineering/ Farm Machinery /Power Engineering	5	Agriculture/ Farm Machinery/ Mechanical Engineering and related streams	0		Practical skills and knowledge required in Greenhouse operations
B.Sc.	Agriculture / Agriculture Engineering/ Horticulture and related streams	5	Agriculture/ Farm Machinery/ Mechanical Engineering and related streams	0		Practical skills and knowledge required in Greenhouse operations
M. Tech	Agriculture/ Agriculture Engineering/ Mechanical Engineering/ Farm Machinery /Power Engineering	2	Agriculture/ Farm Machinery/ Mechanical Engineering and related streams	0		Practical skills and knowledge required in Greenhouse operations
M.Sc.	Agriculture/ Agriculture Engineering and related streams	2	Agriculture/ Farm Machinery/ Mechanical Engineering and related streams	0		Practical skills and knowledge required in Greenhouse operations
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 Greenhouse operations







Assessor Certification		
Domain Certification	Platform Certification	
"Greenhouse Installer", "AGR/Q1001, 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. <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 empanelled assessment partners. Based on the results of the assessment; ASCI will certify the learners/candidates

Testing Environment

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

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

- Multilingual assessments (ASCI is conducting the assessments in 13 + languages pan India)
- Rubric driven assessments in Practical/Viva sections and responses recorded accordingly
- All responses, data, records and feedback stored digitally on the cloud
- Advanced auto-proctoring features photographs, time-stamp, geographic-tagging, toggle- screen/copy-paste disabled, etc.
- Android-based monitoring system
- End to end process from allocation of a batch to final result upload, there is no manual intervention







- Assessment will normally be fixed for a day after the end date of the training / within
 7 days of completion of training.
- Assessment will be conducted at the training venue
- The room where assessment is conducted will be set with proper seating arrangements with enough space to curb copying or other unethical activities
- Question bank of theory and practice will be prepared by ASCI /assessment agency and approved ASCI. Only from approved Question Bank assessment agency will prepare the question paper. Theory testing will include multiple-choice questions, pictorial questions, etc. which will test the trainee on his theoretical knowledge of the subject.
- The theory, practical and viva assessments will be carried out on the same day. In case of a greater number of candidates, the number of assessors and venue facilitation be increased and facilitated

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

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







Assessment Quality Assurance framework

Assessment Framework and Design:

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

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

Type of Evidence and Evidence Gathering Protocol:

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

- Geo Tagging 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

- <u>Morning Check (Pre-Assessment)</u>: 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.
- <u>Geo Tagging</u>: 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 to 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 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	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	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