







# **Model Curriculum**

**QP Name: Flower Packager and Palletizer** 

QP Code: AGR/Q0704

Version: 4.0

**NSQF Level: 2.5** 

**Model Curriculum Version: 3.0** 







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# **Training Parameters**

| Sector   | Agriculture   |
|--|---|
| Sub-Sector                                       | Agriculture Crop Production   |
| Occupation                                       | Floriculture Farming (Nursery Workers and Gardeners, Other)   |
| Country  | India   |
| NSQF Level                                       | 2.5   |
| Aligned to NCO/ISCO/ISIC Code                    | NCO-2015/6113.9900  |
| Minimum Educational Qualification and Experience | 9th Class Pass OR 8th grade pass with 1.5 years of relevant experience in Agriculture and allied sectors OR 5th grade pass with 4.5-year relevant experience OR Ability to read and write with 6 years of relevant experience in Agriculture and allied sectors OR Previous relevant Qualification of NSQF Level 2 with 6 months' relevant experience in Agriculture and allied sectors |
| Pre-Requisite License or Training                | NA  |
| Minimum Job Entry Age                            | 16 Years  |
| Last Reviewed On                                 | 30/05/2024  |
| Next Review Date                                 | 30/11/2024  |
| NSQC Approval Date                               | 30/05/2024  |
| QP Version                                       | 4.0   |
| Model Curriculum Creation Date                   | 30/05/2024  |







| Model Curriculum Valid Up to Date | 30/11/2024 |
|-----------------------------------|------------|
| Model Curriculum Version          | 3.0        |
| Minimum Duration of the Course    | 270 Hours  |
| Maximum Duration of the Course    | 270 Hours  |







# **Program Overview**

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

#### **Training Outcomes**

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

- Demonstrate the process of preparing the flowers for processing.
- Describe the process of storing and packing the flowers.
- Demonstrate the process of creating flower seed pellets.
- 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<br>Duration | Practical<br>Duration | On-the-Job<br>Training Duration<br>(Mandatory) | On-the-Job Training Duration (Recommended) | Total<br>Duration |
|--|--------------------|-----------------------|--|--|-------------------|
| AGR/N0714 Prepare the flowers for processing NOS Version-3.0 NSQF Level-2.5  | 35:00              | 25:00                 | 0:00   | 0:00                                       | 60:00             |
| Module 1: Introduction tothe role of a Flower Packager and Palletizer        | 05:00              | 00:00                 | 0:00   | 0:00                                       | 05:00             |
| Module 2: Preparation of flowers for processing                              | 30:00              | 25:00                 | 0:00   | 0:00                                       | 55:00             |
| AGR/N0715 Store and pack<br>the flowers<br>NOS Version-3.0<br>NSQF Level-2.5 | 30:00              | 60:00                 | 0:00   | 0:00                                       | 90:00             |
| Module 3: Process of storing and packing the flowers                         | 30:00              | 60:00                 | 0:00   | 0:00                                       | 90:00             |
| AGR/N0717 Create flower<br>seed pellets<br>NOS Version-2.0<br>NSQF Level-2.5 | 10:00              | 20:00                 | 0:00   | 0:00                                       | 30:00             |
|  |                    |                       |  |  |                   |







| Module 4: Process of creating flowers seed pellets   | 10:00  | 20:00  | 0:00  | 0:00 | 30:00  |
|--|--------|--------|-------|------|--------|
| AGR/N9903 Maintain<br>health and safety at the<br>workplace<br>NOS Version-4.0<br>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/N0101<br>Employability Skills<br>NOS Version-1.0<br>NSQF Level-2.5                     | 30:00  | 00:00  | 0:00  | 0:00 | 30:00  |
| Module 7: Employability Skills   | 30:00  | 00:00  | 0:00  | 0:00 | 30:00  |
| Module 8: OJT  | 0:00   | 00:00  | 30:00 | 0:00 | 30:00  |
| Total Duration   | 120:00 | 120:00 | 30:00 | 0:00 | 270:00 |







# **Module Details**

## Module 1: Introduction to the role of a Flower Packager and Palletizer Bridge Module, Mapped to AGR/N0714 v3.0

#### **Terminal Outcomes:**

• State the role and responsibilities of a Flower Packager and Palletizer.

| Duration: 05:00  | Duration: 0:00                    |  |  |  |
|--|-----------------------------------|--|--|--|
| Theory – Key Learning Outcomes   | Practical – Key Learning Outcomes |  |  |  |
| <ul> <li>Describe the size and scope of the<br/>Agriculture industry and its sub-<br/>sectors.</li> </ul>  |                                   |  |  |  |
| <ul> <li>Discuss the role and responsibilities<br/>of a Flower Packager and Palletizer</li> </ul>          |                                   |  |  |  |
| <ul> <li>Identify various employment<br/>opportunities for a Flower Packager<br/>and Palletizer</li> </ul> |                                   |  |  |  |
| Classroom Aids   |                                   |  |  |  |
| Training kit - Trainer guide, Presentations, Whiteboard, Marker, projector, laptop                         |                                   |  |  |  |
| Tools, Equipment and Other Requirements  |                                   |  |  |  |
| NA   |                                   |  |  |  |







### Module 2: Preparation of flowers for processing Mapped to AGR/N0714 v3.0

#### **Terminal Outcomes:**

- Describe the process of identifying flowers for processing and preparing the hydration solution.
- Demonstrate the process of preparing the hydration solution and hydrating the flowers.

| Duration: 30:00  | Duration: 25:00   |  |  |
|--|---|--|--|
| Theory – Key Learning Outcomes   | Practical – Key Learning Outcomes   |  |  |
| <ul> <li>List various Personal Protective<br/>Equipment (PPE) required for flower<br/>processing.</li> </ul>       | <ul> <li>Demonstrate the process of<br/>examining the flowers to identify<br/>signs of any pests and diseases.</li> </ul> |  |  |
| <ul> <li>Explain the criteria for selecting cut<br/>flowers for processing.</li> </ul>                             | <ul> <li>Demonstrate the process of<br/>discarding the damaged/ pest-</li> </ul>  |  |  |
| <ul> <li>List indicators of pest-infested and<br/>diseased flowers.</li> </ul>                                     | infested/ diseased flowers in an environment-friendly manner.   |  |  |
| <ul> <li>Describe the process of sorting and grading flowers.</li> </ul>   | <ul> <li>Demonstrate the process of<br/>preparing different types of<br/>hydration solutions for a variety of</li> </ul>  |  |  |
| <ul> <li>List different types of chemicals used<br/>for preparing a variety of hydration<br/>solutions.</li> </ul> | flowers.  • Show how to hydrate flowers   |  |  |
| <ul> <li>Describe the process of preparing<br/>different types of preparing<br/>hydration solutions.</li> </ul>    |   |  |  |
| <ul> <li>Describe the process of hydrating<br/>flowers.</li> </ul>   |   |  |  |

#### **Classroom Aids**

Training kit (Trainer guide, Presentations). Whiteboard, Marker, projector, laptop

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

Flowers (Loose/cut), Cut greens/ foliage, Secateur, Knife, Scissor, Buckets, Sprayer, Flower pin holder, Stapler, Binding wire, Flower catalogue, Holding solution, sprayer, Scale, Sucrose, Chemical (citric acid, benzoic acid, silver nitrate, Stirrer, Chemical balance (Electronic), Volumetric flask, Measuring cylinder Beaker (150 and 100 ml volume), Alcohol, Knife







# Module 3: Process of storing and packing the flowers *Mapped to AGR/N0715 v3.0*

#### **Terminal Outcomes:**

- Describe the process of preparing flower storage and storing flowers.
- Demonstrate the process of packing flowers for being transported.
- Explain the applicable inventory management methods.

| Duration: 30:00   | Duration: 60:00   |
|---|---|
| Theory – Key Learning Outcomes  | Practical – Key Learning Outcomes   |
| <ul> <li>Describe the storage requirements for different types of flowers.</li> <li>Describe the process of applying the necessary treatment in flower storage to eliminate pests and rodents.</li> </ul> | <ul> <li>Demonstrate the process of applying the recommended treatment in the flower storage for the safe storage of flowers.</li> <li>Show how to condition the flowers before packing.</li> </ul> |
| <ul> <li>Explain the importance of<br/>maintaining optimum temperature in<br/>the flower storage and during transit.</li> </ul>   | <ul> <li>Demonstrate the process of packing<br/>the flowers according to their grade<br/>and other relevant parameters.</li> </ul>  |
| <ul> <li>List different types of packing<br/>material suitable for packing flowers.</li> </ul>  | Prepare sample inventory records.   |
| <ul> <li>List different types of solutions to<br/>preserve the freshness of flowers<br/>during transit.</li> </ul>  |   |
| <ul> <li>Describe the process of conditioning<br/>the flowers before being transported.</li> </ul>  |   |
| <ul> <li>Explain relevant grading standards<br/>and the correct method of packing<br/>flowers.</li> </ul>   |   |
| <ul> <li>Explain the First-In, First-Out (FIFO)<br/>and Last In, First Out (LIFO) methods<br/>of inventory management.</li> </ul>   |   |
| <ul> <li>Explain the benefits of resource optimisation.</li> </ul>  |   |
| Classroom Aids  |   |

#### **Classroom Aids**

Training kit (Trainer guide, Presentations). Whiteboard, Marker, projector, laptop

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

Packaging materials, pellets







## Module 4: Process of creating flowers seed pellets Mapped to AGR/N0717 v2.0

#### **Terminal Outcomes:**

- Describe the process of creating flower seeds pellets.
- Demonstrate the process of pelleting the flower seeds and packing them.
- Explain various waste management practices.

| Duration: 10:00  | Duration: 20:00   |
|--|---|
| Theory – Key Learning Outcomes   | Practical – Key Learning Outcomes   |
| <ul> <li>Explain the need for pelleting flower seeds and the appropriate level of coating and weight to be achieved through the process.</li> <li>Explain the criteria for selecting flower seeds for pelleting.</li> <li>List different types of material used for preparing the coating formulation.</li> <li>Describe the process of preparing the coating formulation.</li> <li>Describe the process of operating the relevant machinery such as tumbling drum, rotary pan and coating pan for pelleting seeds.</li> <li>Explain the appropriate temperature and humidity required to store the pelleted seeds.</li> <li>List different types of packing material used to pack pelleted seeds.</li> <li>Describe the method of recycling and disposing of different types of waste.</li> </ul> | <ul> <li>Show how to prepare the coating formulation.</li> <li>Demonstrate the process of operating the tumbling drum, rotary pan or coating pan to pellet flower seeds.</li> <li>Demonstrate the process of packing the pelleted flower seeds.</li> <li>Prepare a sample record of the seeds pelleted and packed.</li> <li>Demonstrate the process of recycling and disposing different types of waste.</li> </ul> |
| Classroom Aids   |   |
| Training kit (Trainer guide, Presentations)  |   |
| Tools, Equipment and Other Requirements  |   |

NA







# Module 5: Hygiene and cleanliness *Mapped to NOS AGR/N9903 v4.0*

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

#### **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 v4.0

#### **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> <li>List the PPE required at the workplace.</li> <li>Describe the commonly reported hazards at the workplace.</li> <li>Describe the hazards caused due to chemicals/pesticides/fumigants.</li> <li>Describe the basic safety checks to be done before the operation of any equipment/machinery.</li> <li>Describe the common first aid procedures to be followed in case of emergencies.</li> <li>State measures that can be taken to prevent accidents and damage s at the workplace.</li> <li>Explain the importance of reporting details of first aid administered, to the reporting officer/doctor, in accordance with workplace procedures.</li> <li>State common health and safety guidelines to be followed at the workplace.</li> </ul> | <ul> <li>Check various areas of the workplace for leakages, water-logging, pests, fire, etc.</li> <li>Demonstrate how to safely use the PPE and implements as applicable to the workplace.</li> <li>Display the correct way of donning, doffing and discarding PPE such as face masks, hand gloves, face shields, PPE suits, etc.</li> <li>Sanitize the tools, equipment and machinery properly.</li> <li>Demonstrate the safe disposal of waste.</li> <li>Demonstrate procedures for dealing with accidents, fires and emergencies.</li> <li>Demonstrate emergency procedures to the given workplace requirements.</li> <li>Demonstrate the use of emergency equipment in accordance with manufacturers' specifications and workplace requirements.</li> <li>Demonstrate the administration of first aid.</li> <li>Prepare a list of relevant hotline/emergency numbers.</li> </ul> |
| 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 (30 hours) Mapped to NOS DGT/VSQ/N0101 v1.0

#### **Duration: 30:00**

#### **Key Learning Outcomes**

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

After completing this programme, participants will be able to:

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

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

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

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

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

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

6. Use appropriate basic English sentences/phrases while speaking

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

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

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

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

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

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

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

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

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







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

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

- 17. Differentiate between types of customers
- 18. Explain the significance of identifying customer needs and addressing them
- 19. Discuss the significance of maintaining hygiene and dressing appropriately

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

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







#### **Module 8: On-the-Job Training**

#### Mapped to AGR/Q0703 v4.0

**Duration: 30:00** 

#### **Key Learning Outcomes**

- 1. examining the flowers to identify signs of any pests and diseases
- discarding the damaged/ pest- infested/ diseased flowers in an environment-friendly manner.
- **3.** prepare different types of hydration solutions for a variety of flowers and hydrate the flowers
- 4. apply the recommended treatment in the flower storage for the safe storage offlowers.
- 5. condition the flowers before packing.
- 6. Package the flowers according to their grade and other relevant parameters and record in the inventory record
- 7. prepare the coating formulation.
- **8.** operate the tumbling drum, rotary pan or coating pan to pellet flower seeds.
- 9. package the pelleted flower seeds and record in inventory record







## **Annexure**

## **Trainer Requirements**

|                        | Trainer Prerequisites  |                  |                         |                        |                |  |
|------------------------|--|------------------|-------------------------|------------------------|----------------|--|
| Minimum<br>Educational | Specialization   | Releva<br>Experi | ant Industry<br>ence    | Training<br>Experience |                | Remarks  |
| Qualification          |  | Years            | Specialization          | Years                  | Specialization |  |
| 10th Class             |  | 5                | Floriculture<br>Farming | 0                      |                | Flower Handler-Packaging & Pelletising with 5 Years of experience after 10th pass. Experience certificate issued by a Government institution/ NGO/ Corporates/ associations on official letter Head  |
| 12th class             |  | 4                | Floriculture<br>Farming | 0                      |                | Ex-Service-Man including Ex-<br>Paramilitary personnel:<br>Minimum Qualification is 10+2<br>with an Honourable<br>Discharge/Pension. SSC would<br>consider a relaxation/ waiver of<br>sector-specific experience on<br>case to case basis. |
| Diploma                | Agriculture/<br>Horticulture                                 | 3                | Floriculture<br>Farming | 0                      |                |  |
| Graduate               | In any stream  | 2                | Floriculture<br>Farming | 0                      |                | For the school Program minimum qualification of the Trainer should be Graduate. Their Teaching experience will be considered industry experience   |
| Graduate               | Agriculture / Horticulture / Botany/ Supply chain Management | 0.5              | Floriculture<br>Farming | 0                      |                |  |

| Trainer Certification   |  |  |
|---|--|--|
| Domain Certification  | Platform Certification   |  |
| Certified for Job Role "Flower Packager and Palletizer", mapped to QP: "AGR/Q0704, v4.0", Minimum accepted score is 80% | Recommended that the Trainer is certified for the Job Role: "Trainer (Vet and Skills)", mapped to the Qualification Pack: "MEP/Q2601, v2.0". The |  |







| minimum accepted score as per MEPSC |
|-------------------------------------|
| guidelines is 80%.                  |
|                                     |

## **Assessor Requirements**

| Assessor Prerequisites |   |                              |  |                                |                |  |
|------------------------|---|------------------------------|--|--------------------------------|----------------|--|
| Minimum<br>Educational | Specialization  | Relevant Industry Experience |  | Training/Assessment Experience |                | Remarks  |
| Qualification          |   | Years                        | Specialization   | Years                          | Specialization |  |
| B.Sc                   | Agriculture/<br>Botany/ Forestry/<br>Horticulture/<br>Floriculture and<br>related streams | 5                            | Agriculture/<br>Forestry/<br>Horticulture and<br>related streams<br>and fields | 0                              |                | Practical skills and knowledge required in overall quality management of flowers |
| M.Sc                   | Agriculture/ Botany/ Forestry/ Horticulture/ Floriculture and related streams             | 2                            | Agriculture/<br>Forestry/<br>Horticulture and<br>related streams<br>and fields | 0                              |                | Practical skills and knowledge required in overall quality management of flowers |
| PhD                    | Agriculture/<br>Botany/ Forestry/<br>Horticulture/<br>Floriculture and<br>related streams | 1                            | Agriculture/<br>Forestry/<br>Horticulture and<br>related streams<br>and fields | 0                              |                | Practical skills and knowledge required in overall quality management of flowers |

| Assessor Certification   |  |  |
|--|--|--|
| Domain Certification   | Platform Certification   |  |
| "Flower Packager and Palletizer", "AGR/Q0704, v4.0", Minimum accepted score is 80% | Certified for the Job Role: "Assessor (Vet and Skills)", mapped to the Qualification Pack: "MEP/Q2701, v2.0", with a minimum score of 80%. |  |







### **Assessment Strategy**

#### **Assessment System Overview**

In Agriculture Sector it is of ultimate importance that individuals dealing with crop production or livestock have the requisite knowledge and competencies to undertake the task. Based on the Assessment Criteria, SSC in association with empanelled 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.

While it is important that an individual has adequate knowledge and skills to perform a specific task, weightage for different aspects of 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 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 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 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 the same day. In case of more number of candidates, the number of assessors and venue facilitation be increased and facilitated

| Assessment         |                        |                                |  |
|--------------------|------------------------|--------------------------------|--|
| Assessment<br>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 the 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
  - o Pictures and videos of Assessment, training feedback and infrastructure.
- Apart from the Assessor, a 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 the assessment, regular calls and video calls are done.
- On-boarding and training of assessor and proctor is done on a timely basis to ensure that the quality of the assessment should be maintained.
- Training covers the understanding of QP, NSQF level, NOS and assessment structure

#### **Methods of Validation**

- Morning Check (Pre-Assessment): Backend team of AA calls and confirms assessor/technical SPOC event status. Assessor/Technical SPOC are instructed to reach the centre on time by 9:30 AM / as decided with TC and delay should be highlighted to the Training Partner in advance.
- <u>Video Calls</u>: Random video calls are made to the technical SPOC/assessor so as to keep a check on assessment quality and ensure assessment is carried out in a fair and transparent manner
- <u>Aadhar verification</u> of candidates







- <u>Evening Check (Post Assessment)</u>: Calls are made to the ground team to ensure the eventis 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 has 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 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 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 the conclusion of the project or scheme)







# **References**

### **Glossary**

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|----------------------|---|--|
| 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            |