



Model Curriculum

QP Name: Automotive Assembly Operator

QP Code: ASC/Q3604

QP Version: 4.0

NSQF Level: 3

Model Curriculum Version: 2.0

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Training Parameters

Sector	Automotive
Sub-Sector	Manufacturing
Occupation	Assembly Operation
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015/ 8211.1201
Minimum Educational Qualification and Experience	5th Class pass with 4 years of relevant experience OR 8th Class Pass with 1 year of relevant experience OR 9th Class pass OR Certificate-NSQF Level 2 (Automotive Assembly Assistant) with 2 Years of relevant experience
Pre-Requisite License or Training	NA
Minimum Job Entry Age	15 years
Last Reviewed On	17/11/2022
Next Review Date	17/11/2025
NSQC Approval Date	17/11/2022
QP Version	4.0
Model Curriculum Creation Date	17/11/2022
Model Curriculum Valid Up to Date	17/11/2025
Model Curriculum Version	2.0
Minimum Duration of the Course	360 Hours 00 Minutes
Maximum Duration of the Course	360 Hours 00 Minutes

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.

- Interpret engineering drawings for identification of raw material, tools and equipment required for the assembly operations.
- Support assembly technician in pre-assembling activities such as lifting of workpiece, inspection of tools and equipment etc.
- Support assembly technician in various assembling operations such as bolting, tightening, riveting, fastening, adhesive clamping, crimping etc.
- Support assembly technician in post-assembly operations such as cleaning and testing of vehicle.
- Work effectively and efficiently as per schedules and timelines.
- Implement safety practices.
- Optimize the use of resources to ensure less wastage and maximum conservation.

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			05:00
Module 1: Introduction to the role of an Automotive Assembly Operator	5:00	0:00			5:00
ASC/N9803 – Organize work and resources (Manufacturing) NOS Version No. – 1.0 NSQF Level – 3	20:00	35:00			55:00
Module 2: Organize work and resources according to safety and conservation standards	20:00	35:00			55:00
DGT/VSQ/N0101 - Employability Skills (30 hours) NOS Version No. – 1.0 NSQF Level – 2	12:00	18:00			30:00
Module 3: Introduction to Employability Skills	0.5:00	0.5:00			1:00
Module 4: Constitutional values - Citizenship	0.5:00	0.5:00			1:00

Module 5: Becoming a Professional in the 21st Century	0.5:00	0.5:00			1:00
Module 6: Basic English Skills	1:00	1:00			2:00
Module 7: Communication Skills	1.5:00	2.5:00			4:00
Module 8: Diversity & Inclusion	0.5:00	0.5:00			1:00
Module 9: Financial and Legal Literacy	1.5:00	2.5:00			4:00
Module 10: Essential Digital Skills	1:00	2:00			3:00
Module 11: Entrepreneurship	2.5:00	4.5:00			7:00
Module 12: Customer Service	1.5:00	2.5:00			4:00
Module 13: Getting ready for apprenticeship & Jobs	1:00	1:00			2:00
ASC/N9805 – Interpret engineering drawing NOS Version No. – 1.0 NSQF Level - 4	15:00	15:00			30:00
Module 14- Interpret engineering drawing	15:00	15:00			30:00
ASC/N3617 – Support the technician in vehicle assembly operations NOS Version No. – 1.0 NSQF Level – 3	75:00	135:00	30:00		240:00
Module 15: Prepare for assembly activities Processes	35:00	70:00	15:00		120:00
Module 16: Support in assembly and post-assembly activities Processes	40:00	65:00	15:00		120:00
Total Duration	127:00	203:00	30:00		360:00

Module Details

Module Name: Introduction to the role of an Automotive Assembly Operator

Bridge module

Terminal Outcomes:

- Discuss the role and responsibilities of an Automotive Assembly Operator.

Duration: <05:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • List the role and responsibilities of an Automotive Assembly Operator. • Discuss the job opportunities of an Automotive Assembly Operator. • Explain about Indian automotive manufacturing market. • List various automobile Original Equipment Manufacturers (OEMs) and different products/ models manufactured by them. • Discuss the standards and procedures involved in the different processes of assembly. • Identify the standard checklists and schedules recommended by OEM. 	
Classroom Aids:	
Whiteboard, marker pen, projector, standard checklists and schedules samples	
Tools, Equipment and Other Requirements	

Module 2:

Module Name: Organize work and resources according to safety and conservation standards

Mapped to ASC/N9803 v1.0

Terminal Outcomes:

- Employ appropriate ways to maintain safe and secure working environment.
- Perform work as per the quality standards.
- Apply conservation practices at the workplace.

Duration: <20:00>	Duration: <35:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • List the potential workplace related risks and hazards, their causes and preventions. • Identify PPE to be used at workplace. • Identify various warning signs used at the workplace. • Describe appropriate strategies to deal with emergencies and accidents at the workplace. • Outline the organizational structure to be followed to report about health, safety and security breaches to the concerned authorities. • Discuss the importance of keeping work area clean and tidy. • Discuss the significance of conforming to basic hygiene practices such as washing hands, using alcohol based hand sanitizers or soap. • Discuss organizational hygiene and sanitation guidelines and ways of reporting breaches/gaps if any to the concerned authorities. • Discuss the ways of dealing with stress and anxiety. • Discuss how to complete the given work within the stipulated time period. • Explain how to maintain a proper balance between team and individual goals. • Explain 5S guidelines at workplace. • List the various materials used at the workplace. • Explain organisational recommended procedure for storage of tools, equipment and material after completion of work. • Explain the ways to optimize usage of 	<ul style="list-style-type: none"> • Apply appropriate safety practices to ensure safety of people at the workplace • Display the correct way of wearing and removing PPE such as face masks, hand gloves, face shields, PPE suits, etc. • Demonstrate the use of fire extinguisher. • Apply basic first aid procedure in case of emergencies. • Perform routine cleaning of tools, equipment and machines. • Employ various techniques for checking malfunctions in the equipment as per Standard Operating Procedure (SOP). • Show how to sanitize and disinfect one's work area regularly. • Demonstrate the correct way of washing hands using soap and water. • Demonstrate the correct way of sanitizing hands using alcohol-based hand rubs. • Demonstrate how to evacuate the workplace in case of an emergency. • Demonstrate sorting of materials, tools and equipment and spare parts after completion of work. • Demonstrate the steps involved in storage of tools, equipment and material after completion of work. • Perform basic checks to identify any spills and leaks and that need to be plugged /stopped. • Demonstrate different disposal techniques depending upon types of waste. • Employ different ways to check if

<p>resources.</p> <ul style="list-style-type: none"> Discuss various methods of waste management and its disposal. List the different categories of waste for the purpose of segregation Differentiate between recyclable and non-recyclable waste State the importance of using appropriate colour dustbins for different types of waste. Discuss common practices for conserving electricity at workplace. Discuss the common sources of pollution and ways to minimize it. 	<p>equipment/machines are functioning as per requirements and report malfunctioning, if observed.</p> <ul style="list-style-type: none"> Employ ways for efficient utilization of material and water.
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	
<ul style="list-style-type: none"> Housekeeping material: Cleaning agents, cleaning cloth, waste container, dust pan and brush set, liquid soap, hand towel, fire extinguisher Safety gears: Safety shoes, ear plug, goggles, gloves, helmet, first-aid kit 	

Module 3: Introduction to Employability Skills

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Discuss about Employability Skills in meeting the job requirements

Duration: <0.5:00>	Duration: <0.5:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss the importance of Employability Skills in meeting the job requirements 	<ul style="list-style-type: none"> Demonstrate Employability Skills
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 4: Constitutional values - Citizenship

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Discuss about constitutional values to be followed to become a responsible citizen

Duration: <0.5:00>	Duration: <0.5:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen. 	<ul style="list-style-type: none"> Show how to practice different environmentally sustainable practices
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 5: Becoming a Professional in the 21st Century

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Demonstrate professional skills required in 21st century

Duration: <0.5:00>	Duration: <0.5:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss 21st century skills. 	<ul style="list-style-type: none"> Display positive attitude, self -motivation, problem solving, time management skills and continuous learning mindset in different situations.
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 6: Basic English Skills

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Practice basic English speaking.

Duration: <1:00>	Duration: <1:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss need of basic English skills. 	<ul style="list-style-type: none"> Use appropriate basic English sentences/phrases while speaking
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 7: Communication Skills

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Practice basic communication skills.

Duration: <1.5:00>	Duration: <2.5:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss need of communication skills Describe importance of team work 	<ul style="list-style-type: none"> Demonstrate how to communicate in a well -mannered way with others. Demonstrate working with others in a team
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 8: Diversity & Inclusion

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Describe PwD and gender sensitisation.

Duration: <0.5:00>	Duration: <0.5:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss the significance of reporting sexual harassment issues in time 	<ul style="list-style-type: none"> Show how to conduct oneself appropriately with all genders and PwD
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 9: Financial and Legal Literacy

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Describe ways of managing expenses, income, and savings.

Duration: <1.5:00>	Duration: <2.5:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss the significance of using financial products and services safely and securely. Explain the importance of managing expenses, income, and savings. Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws 	<ul style="list-style-type: none"> Demonstrate ways of managing expenses, income, and savings.
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 10: Essential Digital Skills

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Demonstrate procedure of operating digital devices and associated applications safely.

Duration: <1:00>	Duration: <2:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely 	<ul style="list-style-type: none"> Show how to operate digital devices and use the associated applications and features, safely and securely
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 11: Entrepreneurship

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Describe opportunities as an entrepreneur.

Duration: <2.5:00>	Duration: <4.5:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges 	<ul style="list-style-type: none"> Demonstrate ways for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 12: Customer Service

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Describe ways of maintaining customer.

Duration: <1.5:00>	Duration: <2.5:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Differentiate between types of customers. Explain the significance of identifying customer needs and addressing them. Discuss the significance of maintaining hygiene and dressing appropriately. 	<ul style="list-style-type: none"> Show how to maintain hygiene and dressing appropriately.
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 13: Getting ready for apprenticeship & Jobs

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Describe ways of preparing for apprenticeship & Jobs appropriately.

Duration: <1:00>	Duration: <1:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss the significance of dressing up neatly and maintaining hygiene for an interview Discuss how to search and register for apprenticeship opportunities 	<ul style="list-style-type: none"> Create a biodata Use various sources to search and apply for jobs
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 14

Module Name: Interpret engineering drawing

Mapped to ASC/N9805 v1.0

Terminal Outcomes:

- Describe the basics of engineering drawing.
- Interpret the machine drawings and symbols for understanding the job requirements.

Duration: <15:00>	Duration: <15:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Identify uniqueness, dimensioning and important features of 2D and 3D shapes. • Identify types of lines, angles, points and their symmetry in shapes. • Differentiate between first angle and third angle projection. • Interpret 3 axis (x, y and z axis) of projection and machine symbols used in drawing. • Describe GD&T and use of its symbols in the drawings. • Identify required limits and tolerances of component from drawing. • Explain standards used in India for making assembly drawings. • Identify organisational drawing standards for interpreting the work requirements appropriately. 	<ul style="list-style-type: none"> • Read an object in first angle and third angle projection. • Demonstrate appropriate way of reading and interpreting the shapes (cones, cylinder, sphere, cuboid, etc) on to a 2D and 3D projection. • Interpret and read orthographic and isometric views. • Read GD&T symbols in the given drawing. • Employ appropriate ways of storing the drawings in a defined and appropriate place. • Role play a situation on how to communicate the changes in drawing to the concerned authority.
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	
<ul style="list-style-type: none"> • Drawing tools • Machine drawing handbook • Machine drawings 	

Module 15

Module Name: Prepare for assembly activities

Mapped to ASC/N3617 v1.0

Terminal Outcomes:

- Identify tools and equipment required for assembly operations.
- Perform the steps to carry out pre-assembly activities such as lifting of vehicle components, inspection of tools and equipment, inspection of vehicle components for defects etc.

Duration: <35:00>	Duration: <85:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • List various components and systems of a vehicle. • Discuss the information derived from the workorder, assembly drawings, work instructions. SOPs etc. • Explain various assembling operations such as bolting, tightening, riveting, fastening, adhesive clamping, crimping etc. • Discuss the impact of various assembly operations on the vehicle and its components. • Describe the process flow of assembly operations. • List tools, measuring instruments, equipment, auto components/parts and sub-assemblies required during assembling work. • Discuss the organisational process of collecting and arranging tools, measuring instruments, equipment, auto components/parts and sub-assemblies from the store. • Summarise the steps to be performed for checking the tools and equipment before use. • Discuss the process of filling CLRI sheet and reporting to the supervisor about the abnormalities identified in it. • Discuss the process of lifting and placing the auto component on the designated place as per the work instructions. • Recall various types of defects such as paint defects, dents, grooves, cracks etc. and their impact on the vehicle assembly. 	<ul style="list-style-type: none"> • Demonstrate the standard operating procedure to use tools, equipment and measuring instruments required during assembly process. • Apply appropriate ways of checking the tools and equipment for defects before use. • Show how to check and clean the assembling equipment before use. • Perform the steps of placing auto component on the designated place by using lifting tools. • Demonstrate how to support the assembly technician in inspecting and marking the defects on the physical body of auto components.

<ul style="list-style-type: none"> Discuss the necessary precautions to avoid any hazard and accident during assembly activities. 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	
<ul style="list-style-type: none"> PPT's, teaching aids, torqueing charts, assembly drawing / blue print, component assembly plan Measuring and marking tools: Steel tape, steel rule, vernier calliper, micrometre, compass, divider, scriber, T Square, bevel protractor, pin set, torque meter etc. Assembly tools and equipment: Riveting machine, drilling machine, riveting guns, pneumatic guns, fasteners, rubber seals, soldering iron, jigs, fixtures, adhesives Components: Bolts, nuts, screws, wires, fasteners, connectors, sealants, adhesive bonding material etc. Lifting devices: Hoists, cranes, bins, part trolleys, pallet trucks Safety materials: Fire extinguisher, portable welding curtains, leather safety gloves, leather aprons, safety glasses, helmet, safety shoe and first-aid kit Cleaning material: Tip cleaner, wire brush (M.S.), cleaning agents, cleaning cloth, waste container, dust pan and brush set, liquid soap, hand towel 	

Module 16

Module Name: Support in assembly and post-assembly activities

Mapped to ASC/N3617 v1.0

Terminal Outcomes:

- Demonstrate various assembly operations such as bolting, tightening, riveting, fastening, adhesive clamping, crimping etc.
- Identify requirements for post-assembly activities.
- Show how to carry out post-assembly activities.

Duration: <40:00>	Duration: <80:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Outline the process of various mechanical components assembly operations such as bolting, riveting, tightening etc. and electrical components assembly operations such as wire connections, wire color identification, wire routing, wire stripping, crimping, soldering, high frequency welding etc. • List various sealing compounds. • Discuss the process of application of sealing compounds on a vehicle assembly. • List the steps to be performed for labelling the auto components. • Discuss the information needed to be mentioned on the labels of the auto components. • Recall the tasks to be performed post-assembly. • Discuss the importance of selecting correct lubricant. • Explain properties and specifications of lubricant required for lubricating the required component. • Summarise the commonly occurring defects in the assembled vehicle. • Discuss the impact of defects on the quality of assembled vehicle. • Explain the inspection methods for identifying the defects and checking the quality of assembled vehicle as per the control plan. • Recall organisational recommended procedure for storage of tools, equipment and fixture after completion 	<ul style="list-style-type: none"> • Demonstrate how to support Assembly Technician in setting of the assembly equipment and all assembly operations. • Employ appropriate assembly method for assembling of mechanical components such as bearings, shafts etc. and electrical components such as electric wire harness, Electronic Control Unit (ECU) etc. in vehicle. • Demonstrate how to route wires and make electrical connections in the vehicle according to circuit diagram. • Demonstrate how to support Assembly Technician during installation of the various components of oil and lube system in the vehicle. • Apply appropriate ways of sealing to prevent water leakage in vehicle components. • Demonstrate the organizational specified procedure for labelling the auto components as per the assembly process and IATF- 16949 standards followed. • Display how to lubricate the vehicle components. • Employ appropriate ways for checking the volume and type of water, diesel or petrol, brake oil, gear oil, engine oil etc. in the vehicle. • Demonstrate how to support the assembly technician in inspection for identifying the defects and checking the quality of assembled vehicle • Demonstrate the organisational procedure involved in storage of tools,

<ul style="list-style-type: none"> of work. List different methods for disposing off waste material and scrap. 	<ul style="list-style-type: none"> equipment and fixtures after completion of work. Show how to dispose scrap or waste as per organisational guidelines.
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Classroom Aids:

Whiteboard, marker pen, projector

Tools, Equipment and Other Requirements

- PPT's, teaching aids, torqueing charts, assembly drawing / blue print, component assembly plan
- Measuring and marking tools:** Steel tape, steel rule, vernier calliper, micrometre, compass, divider, scribe, T Square, bevel protractor, pin set, torque meter etc.
- Assembly tools and equipment:** Riveting machine, drilling machine, riveting guns, pneumatic guns, fasteners, rubber seals, soldering iron, jigs, fixtures, adhesives
- Components:** Bolts, nuts, screws, wires, fasteners, connectors, sealants, adhesive bonding material etc.
- Lifting devices:** Hoists, cranes, bins, part trolleys, pallet trucks
- Safety materials:** Fire extinguisher, portable welding curtains, leather safety gloves, leather aprons, safety glasses, helmet, safety shoe and first-aid kit
- Cleaning material:** Tip cleaner, wire brush (M.S.), cleaning agents, cleaning cloth, waste container, dust pan and brush set, liquid soap, hand towel

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
ITI	Turner/Fitter	3	Turner/Fitter	1	Turner/Fitter	NA
ITI	Turner/Fitter	4	Automotive Assembly	0	Automotive Assembly	NA
Certificate NSQF- Level 5	Automotive Assembly Lead Technician	3	Automotive Assembly	1	Automotive Assembly	NA
Diploma	Mechanical/Automobile	2	Mechanical/Automobile	1	Mechanical/Automobile	NA
Diploma	Mechanical/Automobile	3	Mechanical/Automobile	0	Mechanical/Automobile	NA

Trainer Certification	
Domain Certification	Platform Certification
"Automotive Assembly Operator, ASC/Q3604, version 1.0". Minimum accepted score is 80%.	"Trainer, MEP/Q2601 v1.0" Minimum accepted score is 80%.

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
ITI	Turner/Fitter	4	Turner/Fitter	1	Turner/Fitter	NA
ITI	Turner/Fitter	5	Automotive Assembly	0	Automotive Assembly	NA
Certificate NSQF- Level 5	Automotive Assembly Lead Technician	4	Automotive Assembly	1	Automotive Assembly	NA
Diploma	Mechanical/Automobile	3	Mechanical/Automobile	1	Mechanical/Automobile	NA
Diploma	Mechanical/Automobile	4	Mechanical/Automobile	0	Mechanical/Automobile	NA

Assessor Certification	
Domain Certification	Platform Certification
“Automotive Assembly Operator, ASC/Q3604, version 1.0”. Minimum accepted score is 80%.	“Assessor; MEP/Q2701 v1.0” Minimum accepted score is 80%.

Assessment Strategy

1. Assessment System Overview:
 - Batches assigned to the assessment agencies for conducting the assessment on SDMS/SIP or email
 - Assessment agencies send the assessment confirmation to VTP/TC looping SSC
 - Assessment agency deploys the ToA certified Assessor for executing the assessment
 - SSC monitors the assessment process & records
2. Testing Environment:
 - Confirm that the centre is available at the same address as mentioned on SDMS or SIP
 - Check the duration of the training.
 - Check the Assessment Start and End time to be as 10 a.m. and 5 p.m.
 - If the batch size is more than 30, then there should be 2 Assessors.
 - Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
 - Check the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
 - Confirm the number of TABs on the ground are correct to execute the Assessment smoothly.
 - Check the availability of the Lab Equipment for the particular Job Role.
3. Assessment Quality Assurance levels / Framework:
 - Question papers created by the Subject Matter Experts (SME)
 - Question papers created by the SME verified by the other subject Matter Experts
 - Questions are mapped with NOS and PC
 - Question papers are prepared considering that level 1 to 3 are for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management
 - Assessor must be ToA certified & trainer must be ToT Certified
 - Assessment agency must follow the assessment guidelines to conduct the assessment
4. Types of evidence or evidence-gathering protocol:
 - Time-stamped & geotagged reporting of the assessor from assessment location
 - Centre photographs with signboards and scheme specific branding
 - Biometric or manual attendance sheet (stamped by TP) of the trainees during the training period
 - Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos
5. Method of verification or validation:
 - Surprise visit to the assessment location
 - Random audit of the batch
 - Random audit of any candidate
6. Method for assessment documentation, archiving, and access
 - Hard copies of the documents are stored
 - Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage
 - Soft copies of the documents & photographs of the assessment are stored in the Hard Drives

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

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
SOP	Standard Operating Procedure
WI	Work Instructions
PPE	Personal Protective equipment