









Model Curriculum

QP Name: Automotive Assembly Operator

QP Code: ASC/Q3604

NSQF Level: 3

Automotive Skills Development Council | E-113 Gr Floor, Okhla Industrial Area, Phase – III, New Delhi – 110020









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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	25/03/2021
Next Review Date	25/03/2026
NSQC Approval Date	25/03/2021
QP Version	2.0
Model Curriculum Creation Date	25/03/2021
Model Curriculum Valid Up to Date	25/03/2026
Model Curriculum Version	1.0
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
ASC/N9805 – Interpret engineering drawing NOS Version No. – 1.0 NSQF Level - 4	10:00	20:00			30:00









Module 3: Interpret engineering drawing	10:00	20:00		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 4: Prepare for assembly activities	45:00	75:00	15:00	135:00
Module 5: Support in assembly and post-assembly activities processes	30:00	60:00	15:00	105:00
DGT/VSQ/N0101 - Employability Skills (30 hours) NOS Version No. – 1.0 NSQF Level – 2	12:00	18:00		30:00
Module 6: Introduction to Employability Skills	0.5:00	0.5:00		1:00
Module 7: Constitutional values - Citizenship	0.5:00	0.5:00		1:00
Module 8: Becoming a Professional in the 21st Century	0.5:00	0.5:00		1:00
Module 9: Basic English Skills	1:00	1:00		2:00
Module 10: Communication Skills	1.5:00	2.5:00		4:00
Module 11: Diversity & Inclusion	0.5:00	0.5:00		1:00
Module 12: Financial and Legal Literacy	1.5:00	2.5:00		4:00
Module 13: Essential Digital Skills	1:00	2:00		3:00
Module 14: Entrepreneurship	2.5:00	4.5:00		7:00









Module 15: Customer Service	1.5:00	2.5:00		4:00
Module 16: Getting ready for apprenticeship & Jobs	1:00	1:00		2:00
Total Duration	122:00	208:00	30:00	360:00









Module Details

$\label{lem:module} \textbf{Module Name: Introduction to the role of an Automotive Assembly Operator} \\ \textbf{\textit{Bridge module}}$

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		
 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:	d Pate and advant for an all a		
Whiteboard, marker pen, projector, standard che	ckiists 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.

Duration: <20:00>	Duration: <35:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 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 	 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 personal standard Operating Procedure (SOP). Show how to sanitize and disinfect one 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, tool 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 spill and leaks and that need to be plugged /stopped. Demonstrate different disposal techniques depending upon types of waste. Employ different ways to check in









resources.

- Discuss various methods of waste management and its disposal.
- List the different categories of waste for the purpose of segregation
- Differentiate between recyclable and nonrecyclable 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.

equipment/machines are functioning as per requirements and report malfunctioning, if observed.

Employ ways for efficient utilization of material and water.

Classroom Aids:

Whiteboard, marker pen, projector

Tools, Equipment and Other Requirements

- 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: 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.

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
angle projection. Demonstrate appropriate way of reading and interpreting the shapes (cones,
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.









Module 4: 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: <45:00>	Duration : <90:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 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. 	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.









 Discuss the necessary precautions to avoid any hazard and accident during assembly activities.

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, 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 5

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 : <30:00>	Duration : <75:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
Outline the process of various	Demonstrate how to support Assembly
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	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
sealing compounds on a vehicle assembly. • List the steps to be performed for labelling the auto components.	 vehicle according to circuit diagram. Demonstrate how to support Assembly Technician during installation of the various components of oil and lube
 Discuss the information needed to be mentioned on the labels of the auto components. Recall the tasks to be performed post- 	 system in the vehicle. Apply appropriate ways of sealing to prevent water leakage in vehicle components.
 assembly. Discuss the importance of selecting correct lubricant. 	Demonstrate the organizational specified procedure for labelling the auto components as per the assembly ALTER 16040 standards
 Explain properties and specifications of lubricant required for lubricating the required component. 	process and IATF- 16949 standards followed. • Display how to lubricate the vehicle
 Summarise the commonly occurring defects in the assembled vehicle. Discuss the impact of defects on the quality of assembled vehicle. 	 components. Employ appropriate ways for checking the volume and type of water, diesel or petrol, brake oil, gear oil, engine oil etc.
 Explain the inspection methods for identifying the defects and checking the quality of assembled vehicle as per the control plan. 	 in the vehicle. Demonstrate how to support the assembly technician in inspection for identifying the defects and checking the
 Recall organisational recommended procedure for storage of tools, equipment and fixture after completion 	 quality of assembled vehicle Demonstrate the organisational procedure involved in storage of tools,









	of work.		equipment	and	fixtures	after
•	List different methods for disposing off		completion o	f work.		
	waste material and scrap.	•	Show how to per organisat	•	•	aste as
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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, 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 6: 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		
Discuss the importance of Employability Skills in meeting the job requirements	Demonstrate Employability Skills		
Classroom Aids:			
Whiteboard, marker pen, projector			
Tools, Equipment and Other Requirements			
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Module 7: 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> Practical – Key Learning Outcomes		
Theory – Key Learning Outcomes			
• Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.	Show how to practice different environmentally sustainable practices		
Classroom Aids:			
Whiteboard, marker pen, projector			
Tools, Equipment and Other Requirements			

Module 8: 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
Discuss 21st century skills.	 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 9: 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			
Discuss need of basic English skills.	Use appropriate basic English sentences/phrases while speaking			
Classroom Aids:				
Whiteboard, marker pen, projector				
Tools, Equipment and Other Requirements				

Module 10: 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
 Discuss need of communication skills Describe importance of team work 	 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 11: 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			
Discuss the significance of reporting sexual harassment issues in time	Show how to conduct oneself appropriately with all genders and PwD			
Classroom Aids:				
Whiteboard, marker pen, projector				
Tools, Equipment and Other Requirements				

Module 12: 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	
 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 	Demonstrate ways of managing expenses, income, and savings.	
Classroom Aids:		
Whiteboard, marker pen, projector		
Tools, Equipment and Other Requirements		









Module 13: 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		
Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely	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 14: 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	
Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges	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 15: 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		
 Differentiate between types of customers. Explain the significance of identifying customer needs and addressing them. Discuss the significance of maintaining hygiene and dressing appropriately. 	Show how to maintain hygiene and dressing appropriately.		
Classroom Aids:			
Whiteboard, marker pen, projector			
Tools, Equipment and Other Requirements			

Module 16: 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	
 Discuss the significance of dressing up neatly and maintaining hygiene for an interview Discuss how to search and register for apprenticeship opportunities 	 Create a biodata Use various sources to search and apply for jobs 	
Classroom Aids:		
Whiteboard, marker pen, projector		
Tools, Equipment and Other Requirements		









Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Specialization Educational	Relevant Industry Tra Experience		Trainir	ng Experience	Remarks	
Qualification		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,	" MEP/Q2601, Trainer (VET and Skills),	
version 1.0".	Version-2" Minimum accepted score is	
Minimum accepted score is 80%.	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,	"MEP/Q2701, Assessor (VET and Skills),			
version 1.0".	Version-2" Minimum accepted score is			
Minimum accepted score is 80%.	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