





# **Model Curriculum**

**QP Name: Four Wheeler Service Master Technician** 

QP Code: ASC/Q1404

**QP Version: 2.0** 

**NSQF Level: 6** 

Model Curriculum Version: 1.0

Automotive Skills Development Council Leela Building, 153 GF, Okhla Phase III, Okhla Industrial Area, New Delhi, Delhi 110020





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## **Training Parameters**

Sector	Automotive
Sub-Sector	Automotive Vehicle Service
Occupation	Technical Service & Repair
Country	India
NSQF Level	6
Aligned to NCO/ISCO/ISIC Code	NCO-2015/3115.0602
Minimum Educational Qualification & Experience	I.T.I (Mechanic Auto Electrical and Electronics or Mechanic Diesel/ Mechanic Motor Vehicle (MMV)) with 2 Years of relevant experience Automotive Service OR Certificate-NSQF (Four Wheeler Service Lead Technician Level 5) with 2 Years of relevant experience OR Diploma (Automotive/Mechanical Engineering) with 1 Year of relevant experience Automotive Service from recognized regulatory body
Pre-Requisite License or Training	Permanent driving Licence
Minimum Job Entry Age	20 Years
Last Reviewed On	30/09/2021
Next Review Date	30/09/2024
NSQC Approval Date	30/09/2021
Version	2.0
Model Curriculum Creation Date	30/09/2021
Model Curriculum Valid Up to Date	30/09/2024
Model Curriculum Version	1.0
Minimum Duration of the Course	616 Hours, 0 Minutes
Maximum Duration of the Course	616 Hours, 0 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.

- Plan and manage work and resources efficiently ensuring least wastage and optimal usage.
- Supervise team to ensure implementation safety practices.
- Communicate effectively and develop interpersonal skills with others.
- Display sensitivity towards all genders and differently abled people.
- Employ ways to assist while performing repair and overhauling in mechanical/electrical/electronic vehicle systems.
- Perform required post service/repair activities.
- Carry out inspection for faults in the vehicle to identify correct root cause and provide repair solutions.
- Supervise the team in ensuring periodic maintenance/monitoring of the tools and equipment including special purpose also.

#### **Compulsory Modules**

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Durati on	Practic al Durati on	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
Bridge Module	08:00	00:00			08:00
Module 1: Introduction to the role of a Four Wheeler Service Master Technician <i>Bridge Module</i>	08:00	00:00	-	-	08:00
ASC/N9813 - Manage work and resources NOS Version No. 1.0 NSQF Level 6	24:00	32:00	-	-	56:00
Module 2: Plan work effectively, implement safety practices and optimize resources	24:00	32:00	-	-	56:00
ASC/N9812 – Interact effectively with team, customers and others NOS Version No. 1.0 NSQF Level 6	24:00	32:00	-	-	56:00
Module 3: Communicate effectively and efficiently	24:00	32:00	-	-	56:00





ASC/N1407: Perform advanced fault diagnosis on vehicle NOS Version No. 2.0 NSQF Level 6	72:00	152:00	-	-	224:00
Module 4: Advanced Fault Diagnosis on Vehicle	72:00	152:00	-	-	224:00
ASC/N1409: Assist lead technician in mechanical/ electrical/electronic repairs and overhauling NOS Version No. 2.0 NSQF Level 6	56:00	96:00	-	-	152:00
Module 5: Repairs and Overhauling Supervision	56:00	96:00	-	-	152:00
ASC/N1444: Maintain the tools and equipment NOS Version No. 1.0 NSQF Level 6	40:00	80:00	-	-	120:00
Module 6: Tools and Equipment Maintenance	40:00	80:00	-	-	120:00
Total Duration	224:00	392:00	-	-	616:00





## **Module Details**

## Module 1: Introduction to the Role of a Four Wheeler Service Master Technician *Bridge Module*

#### **Terminal Outcomes:**

• Discuss the role and responsibilities of **a** Four Wheeler Service Master Technician.

Duration: 08:00	Duration: 00:00				
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes				
• List the role and responsibilities of <b>a</b> Four Wheeler Service Master Technician.					
<ul> <li>Explain about automotive industry in India, workshop structure and role and responsibilities of different people in the workshop.</li> </ul>					
<ul> <li>Elaborate standard operating procedures (SOPs) regarding receiving vehicles, opening job card, allocation of work, invoicing, vehicle delivery, handling complaints etc.</li> </ul>					
<ul> <li>Recall the documentation involved in the different processes as specified by OEM/ auto component manufacturer.</li> </ul>					
<ul> <li>Discuss the importance of inspection and diagnosis of faults by optimum utilization of tools and equipment as per SOP.</li> </ul>					
<ul> <li>Discuss the importance of working as per organisational policies, professional code of ethics and standards of practice.</li> </ul>					
<ul> <li>Outline the safety, health and environmental policies and regulations for the work place as well as for automotive trade in general.</li> </ul>					
<ul> <li>Discuss occupational health and safety measures (OSH) required for working on vehicles.</li> </ul>					
<ul> <li>Discuss the legal regulations pertaining to vehicles.</li> </ul>					
Classroom Aids:					
Laptop, white board, marker, projector					
Tools, Equipment and Other Requirements					





### Module 2: Plan Work Effectively and Implement Safety Practices Mapped to NOS ASC/N9813, v1.0

- Employ appropriate ways to maintain a safe and secure working environment
- Perform work as per the quality standards
- Use the resources efficiently.

Duration: 24:00	Duration: 32:00				
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes				
<ul> <li>List the potential workplace relat risks and hazards, their causes an preventions.</li> <li>Outline the organizational structu be followed to report about healt safety and security breaches to th concerned authorities.</li> </ul>	<ul> <li>process to save cost and time.</li> <li>Employ ways to ensure that the team complies with organisation's health, safety policies and procedures.</li> <li>Keep a check on the routine cleaning of tools, machine and equipment.</li> </ul>				
<ul> <li>Describe the procedures to repor accident and health related issue per SOP</li> </ul>	the second se				
<ul> <li>Identify the importance of standard operating procedures of the com</li> </ul>					
w.r.t. privacy, confidentiality and security.	<ul> <li>Demonstrate checking for malfunctions in equipment and report as per SOP</li> </ul>				
<ul> <li>List and explain work requirement be followed by the team.</li> </ul>	periodically checks for spills and leaks and				
<ul> <li>List some common practices for efficient utilisation of energy, ma and water.</li> </ul>	terial plugs the same and keeps work area clean and tidy. • Demonstrate segregation of hazardous				
<ul> <li>Discuss the specified quality stan for work requirements and correct action to be taken in case work far meet the requirements.</li> </ul>	• Show how to dispose non-recyclable waste				
<ul> <li>Discuss the importance of conductive trainings to develop work expertion</li> </ul>	-				
<ul> <li>Discuss the importance of workin per the agreed and assigned requirement.</li> </ul>	<ul> <li>Prepare a sample layout of the workshop depicting the location of all the electrical, hydraulic and thermal equipment used.</li> </ul>				
<ul> <li>Identify the issues with process fl improvements, quality of output, product defects received from pr process, repairs and maintenance tools and machinery and handle to</li> </ul>	evious e of				
<ul> <li>Define ways to optimize usage of resources</li> </ul>					
<ul> <li>Discuss different set of problems with their causes and possible solutions.</li> </ul>	along				





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- Discuss the concept of waste management and methods of waste disposal
- List the different categories of waste for the purpose of segregation
- State the importance of timely completion of tasks
- Discuss the significance of sanitizing the workplace, equipment etc.
- Summarise hygiene and sanitation regulations.
- Discuss the ways of helping team members deal with stress and anxiety
- Explain various ways of time and cost management
- Discuss the use of proper PPE for maintaining health and hygiene at workplace and the process of wearing/discarding them.
- List some common electrical problems and practices of conserving electricity.
- State the importance of using appropriate colour dustbins for different types of waste.
- Discuss organizational procedures for minimizing waste.
- Discuss the importance of maintaining quality and timely delivery of the services as per the goals set by the manager.
- Discuss the common sources of pollution and ways to minimize it.
- Discuss organisation's policies for maintaining personal health and hygiene at workplace.
- Discuss the significance of greening.
- List the requirements like running water, sanitizers, etc. to be checked beforehand at workplace.
- Recall the key performance indicators for the new tasks.

#### **Classroom Aids:**

White board/ black board marker / chalk, duster, computer or Laptop attached to LCD projector

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

Personal Protection Equipment: safety glasses, head protection, rubber gloves, safety footwear, warning signs and tapes, fire extinguisher and first aid kit





## Module 3: Communicate Effectively and Efficiently Mapped to NOS ASC/N9812, v1.0

- Use effective communication and interpersonal skills.
- Apply sensitivity while interacting with different genders and people with disabilities.

Theory - Key Learning OutcomesPractical - Key Learning Outcomes• Explain the importance of complying with organizational requirements to share information with team members.• Employ different means and methods of communication depending upon the requirement to interact with the team members.• Discuss the ways to adjust the communication styles to reflect sensitivity (PwD).• Employ appropriate ways to maintain good relationships with team members and superiors.• Explain the importance of respecting personal space of colleagues and customers.• Employ appropriate techniques to resolve conflicts and manage team members for smooth workflow.• Describe the ways to manage and coordinate with team members for work integration.• Conduct training sessions to train the team members on proper reporting of completed work and receiving feedback.• Discuss the importance of team goals over individual goals, keeping commitment made to team members, and informing them in case of delays.• Conduct training sessions to train the team members on proper reporting of completed work and receiving feedback.• Discuss the importance of following the organization's policies and procedures• Prepare a sample report on the progress and team performance .• Discuss the importance of PwD and gender sensitization to ensure that team shows sensitivity towards them.• Recall the rights and duties at workplace with respect to PwD.• Discuss the importance of following organizational standards and guidelines related to PwD.• Outline organisation policies and procedures pertaining to written and werbal communication.• State the importance of following organization to ensure
<ul> <li>organizational requirements to share information with team members.</li> <li>Discuss the ways to adjust the communication styles to reflect sensitivity towards gender and persons with disability (PwD).</li> <li>Explain the importance of respecting personal space of colleagues and coordinate with team members for work integration.</li> <li>Describe the ways to manage and coordinate with team members for work integration.</li> <li>State the importance of team goals over individual goals, keeping commitment made to team members, and informing them in case of delays.</li> <li>Discuss the importance of following the organisation's policies and procedures</li> <li>Discuss the importance of following sensitiziton to ensure that team shows sensitization to ensure that team shows sensitivity towards them.</li> <li>State the importance of following organizational standards and guidelines related to PwD.</li> <li>Discuss the importance of following organizational standards and guidelines related to PwD.</li> <li>Recall the rights and duties at workplace with respect to PwD.</li> <li>Outline organisation policies and procedures pertaining to written and verbal communication.</li> </ul>





White board/black board marker/chalk, duster, computer or Laptop attached to LCD projector

Tools, Equipment and Other Requirements





## Module 4: Advanced Fault Diagnosis on Vehicle Mapped to NOS ASC/N1407, v2.0

- Perform steps to inspect and validate faults in the vehicle to arrive at a root cause.
- Employ techniques for providing a repair solution for the faults.

Duration: 72:00	Duration: 152:00				
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes				
<ul> <li>Describe different auto components/aggregates along with their manufacturer's specifications.</li> </ul>	• Demonstrate how to check the functioning of vehicle systems to identify the abnormalities due to recorded fault.				
<ul> <li>Analyse the job card and other details to verify fault information along with noting vehicle condition in case of temporary fault.</li> </ul>	<ul> <li>Implement ways to handle vehicle inspection/test drive for visual defects based on nature of fault which can validate the noted fault.</li> </ul>				
<ul> <li>Describe the technology used and functioning of various electrical, mechanical systems of the vehicle and their integration with each other along with the effect of one system on other systems.</li> </ul>	• Demonstrate how to figure out symptoms and exact fault location in vehicle systems including proof collection such as photographs, audio/video recording, environmental data of electronic control units (ECUs) etc.				
• Discuss fundamental terms, laws/principles used in vehicles, automotive communication protocols and various electrical and electronic signals.	<ul> <li>Supervise lead technician to conduct tests using various diagnostic tools to identify faulty component or root cause of the fault as per troubleshooting SOPs.</li> </ul>				
<ul> <li>List the observations to recommend required assessments to check the performance of alleged component of vehicle system.</li> </ul>	<ul> <li>Manage lead technician to perform required vehicle inspections/troubleshooting documentation.</li> </ul>				
<ul> <li>Explain how to inform about any new premature failure/malfunctions/repair without any previously available resolution by respective OEM or component manufacturer.</li> </ul>	<ul> <li>Suggest possible repair resolution by using vehicle or component specification, checklists, diagnostic manual, technical information, etc.</li> <li>Demonstrate how to understand required</li> </ul>				
<ul> <li>Discuss how to justify and confirm final plan for required repair/replacement, repairing process and time.</li> </ul>	<ul> <li>Demonstrate now to understand required inspection, measurement/test results and compare them with vehicle specifications and regulatory requirements.</li> </ul>				
<ul> <li>Discuss how to use appropriate measuring device/equipment and interpret mathematical calculations.</li> </ul>					
<ul> <li>Explain symbols, units and terms used in wiring diagrams related to electrical/electric systems/components of the vehicle.</li> </ul>					
<ul> <li>Discuss how to use computer, on-line application and OEM technical information/assistance portals.</li> </ul>					





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٠	Discuss how to use various available
	sources of information to evaluate
	service/repair requirements.

- List industry standards essential for inspection and fault reporting in different formats.
- Discuss common indications of regular ٠ faults and failures in vehicle systems.
- List OEM safety requirements to work in hazardous environments and manage tool/equipment, hazardous substances.
- Discuss Standard Operating Procedures (SOPs) of the organization/ dealership set by OEM/components manufacturer for vehicle fault inspection/diagnosis and using required tools/equipment for diagnosis/ troubleshooting.
- Identify various types of errors or defects • in the tools/equipment.

**Classroom Aids:** 

White board/ black board marker / chalk, duster, computer or Laptop attached to LCD projector

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

Reports, job cards, documents used in the dealership/workshop, repair/diagnosis tools/equipment





## Module 5: Repairs and Overhauling Supervision Mapped to NOS ASC/N1409, v2.0

- Provide assistance to perform repair and overhauling in mechanical/electrical/electronic systems of the vehicle.
- Carry out post service/repair activities.

· · · · ·					
Duration: 56:00	Duration: 96:00				
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes				
<ul> <li>Analyse the job card, vehicle service history, inspection report, etc. in order to confirm any repair requirement.</li> <li>Explain use of PPE as per the job requirement.</li> </ul>	<ul> <li>Demonstrate how to carry out visual inspection for defect assessment.</li> <li>Supervise the lead technician to collect right service/repair manual and follow the required SOP.</li> </ul>				
<ul> <li>Discuss required precautions while working to avoid any damage to the vehicle and its components.</li> <li>Explain usage of tools/equipment related to mechanical electrical/electronic systems</li> </ul>	<ul> <li>Implement ways to handle collection of required workshop tools/measuring devices/equipment/spare parts/consumable as per calibration stated by respective OEM.</li> </ul>				
<ul> <li>including special service tools, based diagnostic equipment, etc.as per OEM SOP.</li> <li>Discuss OEM SOPs recommended for</li> </ul>	<ul> <li>Manage proper placement of tools/equipment to maintain safe and organized workstation.</li> </ul>				
service, repair and overhauling of the vehicle aggregates.	<ul> <li>Supervise that OEM SOP and standard safety procedures are followed while working in hazardous environments and</li> </ul>				
<ul> <li>Explain standard schedules and checklists suggested by the OEM/auto component manufacturer for vehicle</li> </ul>	handling tool/equipment, vehicle component, fluids, hazardous substances.				
<ul> <li>component/aggregate servicing.</li> <li>Discuss different methods removal, dismantling, cleaning, adjusting, reassembling and testing of vehicle components for their proper functioning.</li> </ul>	<ul> <li>Demonstrate how to remove parts appropriate to various aggregates along with their secure placement and post removal testing of components as per OEM SOP.</li> </ul>				
<ul> <li>Describe different types and quality of consumables/materials used in different processes.</li> </ul>	<ul> <li>Manage cleaning of dismantled components before assembling, including mechanical and electrical aggregates.</li> </ul>				
	<ul> <li>Provide support to lead technician to carry out repair/replacement/calibration/overhauling of components/aggregate including power</li> </ul>				
	<ul> <li>assisted braking &amp; steering systems.</li> <li>Demonstrate how to rectify indirect faults in mechanical aggregate due to another system/component.</li> </ul>				
	<ul> <li>Supervise the maintenance of vehicle repair/overhaul documentation.</li> </ul>				
	<ul> <li>Implement ways to verify post repair performance of vehicle/aggregate and</li> </ul>				





report supervisor/service advisor in case of any other requirement of inspection/repair.

- Verify completion of all allotted tasks before releasing the vehicle for the next process.
- Supervise disposal of materials/scrap of four-wheeler as per organisation's policies
- Manage scheduled checks, calibration and timely repairs for workshop tools, equipment and workstations along with their removal from the work site on work completion.

#### **Classroom Aids:**

White board/ black board marker / chalk, duster, computer or Laptop attached to LCD projector

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

Reports, job cards, documents used in the dealership/workshop, hand tools, power tools, special service tools, measuring instruments, workshop equipment, demo vehicle, aggregates etc.





## Module 6: Tools and Equipment Maintenance Mapped to NOS ASC/N1444, v1.0

#### **Terminal Outcomes:**

- Perform steps to carry out tools and equipment maintenance activity.
- Carry out monitoring of special purpose tools/equipment usage.

Duration: 40:00	Duration: 80:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Identify and report shortfall/ missing/damage tools or equipment, new product launch and vehicular population in the workshop.</li> <li>Discuss Standard Operating Procedures (SOPs) of the organisation/dealership for tools/equipment inspection and operation within suggested tolerance levels.</li> <li>Explain how to maintain different tools and equipment including hand and power tools, specialist tool, etc. as per SOPs of manufacturer/dealership.</li> <li>Discuss the various methods of gauging and fault assessment in tools and equipment.</li> <li>Explain operating process and usage of tools/equipment at required place.</li> <li>Describe the process and workshop protocols followed for schedule maintenance or ordering of any tools and equipment.</li> </ul>	<ul> <li>Create a list of available tools and equipment in the workshop as recommended by OEM.</li> <li>Carry out tools and equipment inspection to check for any losses, defects, wear or breakage.</li> <li>Prepare timelines document required for calibration of tools/equipment.</li> <li>Manage required re-calibration of the tools/equipment in workshop or by external vendor within specified timelines and service schedules as per the manufacturer guidelines.</li> <li>Implement ways to maintain budget within given limit along with records of tools/equipment expenses.</li> <li>Demonstrate how to label special purpose tool/equipment location with details such as number, application and their total items/child parts, etc.</li> <li>Supervise placement/storage of clean tools/equipment to the concerned person.</li> <li>Manage issuance of correct special purpose tools/equipment based on vehicle model/aggregate and nature of the job.</li> <li>Demonstrate how to maintain special purpose tools/equipment usage documentation on daily basis and report in case of any discrepancy.</li> </ul>

White board/ black board marker / chalk, duster, computer or Laptop attached to LCD projector

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

Reports, job cards, documents used in the dealership/workshop, hand tools, power tools, special service tools, measuring devices and workshop equipment.





## Annexure

## **Trainer Requirements**

Trainer Prerequisites						
Minimum Educational QualificationSpecializationRelevant Indu ExperienceYearsSpecialization		•	Traini	ng Experience	Remarks	
		Years	Specialization	Years	Specialization	
ITI (Mechanic Motor Vehicle)	Automobile Engineering/ Mechanical Engineering	5	Two/Four Wheeler Service	1	Two/Four Wheeler Service	NA
Diploma (Automobile Engineering/ Mechanical Engineering)	Automobile Engineering/ Mechanical Engineering	4	Two/Four Wheeler Service	1	Two/Four Wheeler Service	NA
BE/ B. Tech (Automobile Engineering/ Mechanical Engineering)	Automobile Engineering/ Mechanical Engineering	3	Two/Four Wheeler Service	1	Two/Four Wheeler Service	NA

Trainer Certification				
Domain Certification	Platform Certification			
Certified for Job Role: "Four Wheeler Service Master Technician Level 6" "ASC/Q1401, v1.0", Minimum accepted score is 80%	Recommended that the Trainer is certified for the Job Role: "Trainer", "MEP/Q2601, v1.0", Minimum accepted score is 80%			





### **Assessor Requirements**

	Assessor Prerequisites					
Minimum Educational	Specialization	Relevant Industry Experience		Training Experience		Remarks
Qualification		Years	Specialization	Years	Specialization	
ITI (Mechanic Motor Vehicle)	Automobile Engineering/ Mechanical Engineering	6	Two/Four Wheeler Service	1	Two/Four Wheeler Service	NA
Diploma (Automobile Engineering/ Mechanical Engineering)	Automobile Engineering/ Mechanical Engineering	5	Two/Four Wheeler Service	1	Two/Four Wheeler Service	NA
BE/ B. Tech (Automobile Engineering/ Mechanical Engineering)	Automobile Engineering/ Mechanical Engineering	4	Two/Four Wheeler Service	1	Two/Four Wheeler Service	NA

Assessor Certification				
Domain Certification	Platform Certification			
Certified for Job Role: "Four Wheeler Service Master Technician Level 6" "ASC/Q1401, v1.0", Minimum accepted score is 80%	Recommended that the Assessor is certified for the Job Role: "Assessor" "MEP/Q2701, v1.0"			





#### **Assessment Strategy**

- 1. Assessment System Overview:
  - Batches assigned to the assessment agencies for conducting the assessment on 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 The assessor should:
  - 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 are created by the Subject Matter Experts (SME)
  - Question papers created by the SME are 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).
(M) TLO	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 <b>upon the completion of the training</b> .
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do <b>upon the completion of a module.</b> 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
PwD	Persons with Disability
OEM	Original Equipment Manufacturer