







Model Curriculum

QP Name: Automotive Tool Room Technician

QP Code: ASC/Q4101

NSQF Level: 3.5

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







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Training Parameters

Sector	Automotive
Sub-Sector	Manufacturing
Occupation	Tool Room Operation
Country	India
NSQF Level	3.5
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7223.0200
Minimum Educational Qualification and Experience	10th Class + 1 year ITI with 3 years of relevant experience OR 10th Class + 2 year ITI with 2 years of relevant experience OR 12th Class with 2 Years of relevant experience OR Certificate-NSQF (Automotive Tool Room Operator Level 3) with 2 years of experience
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 years
Last Reviewed On	29/07/2021
Next Review Date	29/07/2026
NSQC Approval Date	29/07/2021
Model Curriculum Creation Date	29/07/2021
Model Curriculum Valid Up to Date	29/07/2026
Minimum Duration of the Course	450 Hours 00 Minutes
Maximum Duration of the Course	450 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 assembly drawing/work instructions/SOPs for identification of raw material, tools and equipment required for the tool and die manufacturing operations.
- Carry out preparatory activities such as lifting of workpiece, inspection of tools and equipment etc.
- Carry out machining, assembling and post-production operations.
- 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 Tool Room Technician	05:00	0:00			05:00
ASC/N9803 – Organize work and resources (Manufacturing) NOS Version No. – 1.0 NSQF Level – 3.5	25:00	30:00			55:00
Module 2: Organize work and resources according to safety and conservation standards	25:00	30:00			55:00
ASC/N4101 – Prepare for tool and die manufacturing operations NOS Version No. – 2.0 NSQF Level – 3.5	20:00	40:00			60:00
Module 3: Prepare for tool and die manufacturing	20:00	40:00			60:00







operations			
ASC/N4102 – Perform tool and die manufacturing operations NOS Version No. – 2.0 NSQF Level – 3.5	105:00	165:00	270:00
Module 4: Perform machining activities	55:00	80:00	135:00
Module 5: Perform assembly and post- production activities	50:00	85:00	135:00
DGT/VSQ/N0102 - Employability Skills (60 hours) NOS Version No. – 1.0 NSQF Level – 3.5	24:00	36:00	60:00
Module 6: Introduction to Employability Skills	0.5:00	1:00	1.5:00
Module 7: Constitutional values - Citizenship	0.5:00	1:00	1.5:00
Module 8: Becoming a Professional in the 21st Century	1:00	1.5:00	2.5:00
Module 9: Basic English Skills	4:00	6:00	10:00
Module 10: Career Development & Goal Setting	1:00	1:00	2:00
Module 11: Communication Skills	2:00	3:00	5:00
Module 12: Diversity & Inclusion	1:00	1.5:00	2.5:00
Module 13: Financial and Legal Literacy	2:00	3:00	5:00
Module 14: Essential Digital Skills	4:00	6:00	10:00
Module 15: Entrepreneurship	3:00	4:00	7:00
Module 16: Customer Service	2:00	3:00	5:00
Module 17: Getting ready for apprenticeship & Jobs	3:00	5:00	8:00
Total Duration	179:00	271:00	450:00







Module Details

Module 1: Introduction to the role of an Automotive Tool Room Technician Bridge module

Terminal Outcomes:

• Discuss the role and responsibilities of an Automotive Tool Room Technician.

Practical – Key Learning Outcomes







Module 2: 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 : <25:00>	Duration : <30:00>		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
• List the potential workplace related risks	 Apply appropriate safety practices to 		
and hazards, their causes and preventions.	ensure safety of people at the workplace		
 Identify PPE to be used at workplace. 	 Display the correct way of wearing and 		
 Identify various warning signs used at the 	removing PPE such as face masks, hand		
workplace.	gloves, face shields, PPE suits, etc.		
Describe appropriate strategies to deal	Demonstrate the use of fire extinguisher.		
with emergencies and accidents at the	Apply basic first aid procedure in case of		
workplace.	emergencies.		
Outline the organizational structure to be	 Perform routine cleaning of tools, 		
followed to report about health, safety	equipment and machines.		
and security breaches to the concerned	Employ various techniques for checking		
authorities.	malfunctions in the equipment as per		
Discuss the importance of keeping work	Standard Operating Procedure (SOP).		
area clean and tidy.	Show how to sanitize and disinfect one's work area regularly.		
 Discuss the significance of conforming to basic hygiene practices such as washing 	work area regularly.		
hands, using alcohol based hand sanitizers	 Demonstrate the correct way of washing hands using soap and water. 		
or soap.	 Demonstrate the correct way of sanitizing 		
Discuss organizational hygiene and	hands using alcohol-based hand rubs.		
sanitation guidelines and ways of	 Demonstrate how to evacuate the 		
reporting breaches/gaps if any to the	workplace in case of an emergency.		
concerned authorities.	 Demonstrate sorting of materials, tools 		
 Discuss the ways of dealing with stress 	and equipment and spare parts after		
and anxiety.	completion of work.		
 Discuss how to complete the given work 	Demonstrate the steps involved in storage		
within the stipulated time period.	of tools, equipment and material after		
 Explain how to maintain a proper balance 	completion of work.		
between team and individual goals.	 Perform basic checks to identify any spills 		
 Explain 5S guidelines at workplace. 	and leaks and that need to be plugged		
List the various materials used at the	/stopped.		
workplace.	• Demonstrate different disposal techniques		
• Explain organisational recommended	depending upon types of waste.		
procedure for storage of tools, equipment	• Employ different ways to check if		
and material after completion of work.	equipment/machines are functioning as		
• Explain the ways to optimize usage of	per requirements and report		
resources.	malfunctioning, if observed.		
• Discuss various methods of waste	• Employ ways for efficient utilization of		

material and water.

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.

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: Prepare for tool and die manufacturing operations

Mapped to ASC/N4101, v2.0

Terminal Outcomes:

- Identify tools and equipment required for tool and die manufacturing operations.
- Perform the steps to carry out preparatory activities such as lifting of workpiece, collection and inspection of tools and equipment etc.

Whiteboard, marker pen, projector

Tools, Equipment and Other Requirements

- PPT's, teaching aids, drawing / blue print, work order
- Raw Materials: Metal blocks
- Work Table With Bench Vice
- Machining tools/ equipment: Surface marking plate, cutting tools, threading, dies & guides, etc.
- Machines: Conventional lathe and vertical milling machine with standard accessories and Production CNC machining center with ATC
- **Measuring equipment**: Vernier calipers, micrometre, feeler gauges, bore gauge, slip gauge, thickness gauge, steel ruler, measuring tape, height, gauge, dial gauge, angle plate, set square compass, divider, scriber, T Square, bevel protractor, pin set, torque meter etc.
- Consumables: Oil stones, Emery, Dressing stone, File cord, Tool post packing, Spares for







cutting tools, Carbide inserts, Grinding Wheels 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
- **Hand book**, job orders, work order, completion material requests, and Technical Reference Books.
- **Safety materials**: Fire extinguisher, portable welding curtains, leather safety gloves, leather aprons, safety glasses, helmet, safety shoe and first-aid kit
- **Cleaning material**: Wire brush (M.S.), cleaning agents, cleaning cloth, waste container, dust pan and brush set, liquid soap, hand towel







Module 4: Perform machining activities

Mapped to ASC/N4102, v2.0

Terminal Outcomes:

- Demonstrate various machining operations such as drilling, boring, turning etc.
- Demonstrate EDM process.

Duration : <55:00>	Duration: <80:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Explain different types of machining processes. Discuss operational fundamentals of conventional and CNC machine. List jigs and fixtures, tools, cutting tools, equipment and measuring instruments required during the machining work. Discuss the process of lifting and placing the workpieces on working platform as per the work instructions. Elaborate ways for cutting the workpieces as per the work requirement. Describe importance of selecting correct program in the CNC machine for machining operation as per the work instructions. Discuss how to cut, shape and trim the workpiece by using CNC machine. Discuss the importance of monitoring process parameters during the machining process and correcting them as per the requirements. List the steps to be performed for checking the machine operations for any defects in its component and informing the supervisor. Discuss the importance of uniform flow of dielectric liquid during EDM process. List steps to be performed for flushing process. Describe EDM machining process for making through holes. Discuss need of changing electrodes in case of deviation in specifications of metal plate from the required specifications. 	 Apply appropriate ways to measure and mark the reference points/ cutting lines on the work pieces by using measuring instruments. Perform the steps of lifting and placing the workpieces on working platform by using lifting tools. Demonstrate use of power operated/ manual/ automatic cutting tools to cut the workpieces as per the work requirement. Demonstrate organisational specified procedure of rough machining to get required size of work piece. Demonstrate organizational specified procedure of performing machining operations on the workpiece. Apply appropriate ways to cut, shape and trim the workpiece to achieve specified lengths and shapes. Read the measurement gauges and monitor the process parameters to maintain the quality standards. Employ appropriate ways for checking the machine operations for any defects in the component. Prepare a sample report about any problems faced during the machining process. Employ appropriate ways of measuring and comparing the final workpiece dimensions with the specified dimensions in the work order and engineering drawing. Show how to set the EDM machine and its parameters as per the work instructions. Show how to load the workpiece on EDM machine. Perform steps of flushing process for maintaining the follow of dielectric and removing any debris during EDM process.







 Demonstrate organizational specified procedure of starting the EDM machine and making the blind spots and holes the die formation plate/metal work plate.

Classroom Aids:

Whiteboard, marker pen, projector

Tools, Equipment and Other Requirements

- PPT's, teaching aids, drawing / blue print, work order
- Raw Materials: Metal blocks
- Work Table With Bench Vice
- Machining tools/ equipment: Surface marking plate, cutting tools, threading, dies & guides, etc.
- Machines: Conventional lathe and vertical milling machine with standard accessories and Production CNC machining center with ATC
- Measuring equipment: Vernier calipers, micrometre, feeler gauges, bore gauge, slip gauge, thickness gauge, steel ruler, measuring tape, height, gauge, dial gauge, angle plate, set square compass etc.
- **Consumables:** Oil stones, Emery, Dressing stone, File cord, Tool post packing, Spares for cutting tools, Carbide inserts, Grinding Wheels etc.
- **Hand book**, job orders, work order, completion material requests, and Technical Reference Books.
- **Safety materials**: Fire extinguisher, portable welding curtains, leather safety gloves, leather aprons, safety glasses, helmet, safety shoe and first-aid kit
- Cleaning material: Wire brush (M.S.), cleaning agents, cleaning cloth, waste container, dust pan and brush set, liquid soap, hand towel







Module 5: Perform assembly and post-production activities

Mapped to ASC/N4102, v2.0

Terminal Outcomes:

- Demonstrate various assembly operations such as bolting, torqueing, tightening, fitting, greasing, hammering, sealing, clamping etc.
- Perform steps to carry out post-production activities.

organisational guidelines.

Classroom Aids:







Whiteboard, marker pen, projector

Tools, Equipment and Other Requirements

- PPT's, teaching aids, drawing / blue print, work order
- **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: 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/N0102

Terminal Outcomes:

• Discuss about Employability Skills in meeting the job requirements

Duration : <1:00>	
Practical – Key Learning Outcomes	
 List different learning and employability related GOI and private portals and their usage 	

Module 7: Constitutional values - Citizenship Mapped to DGT/VSQ/N0102

Terminal Outcomes:

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

Duration: <0.5:00>	Duration: <1:00>
Theory – Key Learning Outcomes	Practical – 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/N0102

Terminal Outcomes:

• Demonstrate professional skills required in 21st century

Practical – Key Learning Outcomes
• Exhibit 21st century skills like Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life.

Module 9: Basic English Skills Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Practice basic English speaking.

Duration: <4:00>	Duration : <6:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
Describe basic communication skills Discuss ways to read and interpret text written in basic English	Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone







	 Read and interpret text written in basic English Write a short note/paragraph / letter/e - mail using basic English
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 10: Career Development & Goal Setting Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Demonstrate Career Development & Goal Setting skills.

Duration : <1:00>	Duration: <1:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
Discuss need of career development plan	 Demonstrate how to communicate in a well-mannered way with others. Create a career development plan with well-defined short- and long-term goals
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 11: Communication Skills Mapped to DGT/VSQ/N0102

Terminal Outcomes:

Practice basic communication skills.

Duration : <2:00>	Duration: <3:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Explain the importance of active listening for effective communication Discuss the significance of working collaboratively with others in a team 	Demonstrate how to communicate effectively using verbal and nonverbal communication etiquette
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

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Module 12: Diversity & Inclusion Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Describe PwD and gender sensitisation.

Duration : <1:00>	Duration : <1.5:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
Discuss the significance of reporting sexual harassment issues in time	 Demonstrate how to behave, communicate, and conduct oneself appropriately with all genders and PwD
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 13: Financial and Legal Literacy Mapped to DGT/VSQ/N0102

Terminal Outcomes:

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

Duration : <2:00>	Duration : <3:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 List the common components of salary and compute income, expenditure, taxes, investments etc. Discuss the legal rights, laws, and aids 	 Outline the importance of selecting the right financial institution, product, and service Demonstrate how to carry out offline and online financial transactions, safely and securely
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	







Module 14: Essential Digital Skills Mapped to DGT/VSQ/N0102

Terminal Outcomes:

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

Duration : <4:00>	Duration: <6:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Describe the role of digital technology in today's life 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 Create sample word documents, excel sheets and presentations using basic features Utilize virtual collaboration tools to work effectively
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 15: Entrepreneurship Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Describe opportunities as an entrepreneur.

Duration : <3:00>	Duration: <4:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Explain the types of entrepreneurship and enterprises Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its 	Create a sample business plan, for the selected business opportunity







 mitigation plan Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 16: Customer Service Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Describe ways of maintaining customer.

Duration : <2:00>	Duration : <3:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Explain the significance of identifying customer needs and addressing them. Explain the significance of identifying customer needs and responding to them in a professional manner. Discuss the significance of maintaining hygiene and dressing appropriately. 	Demonstrate how to maintain hygiene and dressing appropriately.
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 17: Getting ready for apprenticeship & Jobs *Mapped to DGT/VSQ/N0102*

Terminal Outcomes:

• Describe ways of preparing for apprenticeship & Jobs appropriately.

Duration: <3:00>	Duration : <5:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Discuss the significance of maintaining hygiene and confidence during an interview List the steps for searching and registering for apprenticeship opportunities 	 Create a professional Curriculum Vitae (CV) Use various offline and online job search sources such as employment exchanges, recruitment agencies, and job portals respectively Perform a mock interview
Classroom Aids:	
Whiteboard, marker pen, projector	







Tools, Equipment and Other Requirements







Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
ITI	Turner/Fitter/ Electrician	3	Tool Room	1	Tool Room	NA
ITI	Turner/Fitter/ Electrician	4	Tool Room	0	NA	NA
Diploma	Mechanical/El ectrical/ Automobile	2	Tool Room	1	Tool Room	NA
Diploma	Mechanical/El ectrical/ Automobile	3	Tool Room	0	NA	NA

Trainer Certification				
Domain Certification	Platform Certification			
"Automotive Tool Room Technician, ASC/Q4101, version 2.0". Minimum accepted score is 80%.	Recommended that the trainer is certified for the job role "Trainer (VET and Skills)", Mapped to Qualification Pack: MEP/Q2601, V2.0" Minimum accepted score is 80%			







Assessor Requirements

Assessor Prerequisites						
Minimum Educational	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
Qualification		Years	Specialization	Years	Specialization	
ITI	Turner/Fitter/Electrician	4	Tool Room	1	Tool Room	NA
ITI	Turner/Fitter/Electrician	5	Tool Room	0	NA	NA
Diploma	Mechanical/Electrical/ Automobile	3	Tool Room	1	Tool Room	NA
Diploma	Mechanical/Electrical/ Automobile	4	Tool Room	0	NA	NA

Assessor Certification				
Domain Certification	Platform Certification			
"Automotive Tool Room Technician, ASC/Q4101, version 2.0". Minimum accepted score is 80%.	Recommended that the Accessor is certified for the job role "Assessor (VET and Skills)", Mapped to Qualification Pack: MEP/Q2701, V2.0" 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	