



Model Curriculum

QP Name: Reliability & Quality Control Manager

QP Code: TEL/Q7206

QP Version: 1.0

NSQF Level: 6

Model Curriculum Version: 1.0

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Training Parameters

Sector	Telecom
Sub-Sector	Semiconductor-Manufacturing & Packaging
Occupation	Semiconductor – M&P
Country	India
NSQF Level	6
Aligned to NCO/ISCO/ISIC Code	2015/3522.9900
Minimum Educational Qualification and Experience	Completed 4-year UG (Electronics/Telecom/IT) with 1-year of relevant experience OR Completed 2-year Diploma after 12 th with 4 Years of relevant experience OR Previous relevant Qualification of NSQF Level 5.5 with 1.5 years of relevant experience OR Previous relevant Qualification of NSQF Level 5 with 3 years of relevant experience
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	NA
Next Review Date	27.08.2027
NSQC Approval Date	27.08.2024
QP Version	1.0
Model Curriculum Creation Date	27.08.2024
Model Curriculum Valid Up to Date	27.08.2027
Model Curriculum Version	1.0
Minimum Duration of the Course	660 hours
Maximum Duration of the Course	660 hours

Program Overview

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

Training Outcomes

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

- Understand and describe the key processes for evaluating semiconductor product reliability.
- Apply stress tests and failure analysis techniques effectively on semiconductor products.
- Analyze test data to identify failure trends and root causes.
- Evaluate corrective actions and recommend improvements for product robustness.
- Document and communicate test results and quality control measures accurately for ongoing improvements.

Compulsory Modules

The table lists the modules, their duration and mode of delivery.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
TEL/N7219: Prepare and Assemble Telecom Equipment PCBs NOS Version No. 1 NSQF Level- 6	60:00	60:00	60:00	-	180:00
Module 1: Preparing and Assembling Telecom Circuit Boards	60:00	60:00	60:00	-	180:00
TEL/N7220: Conduct and Analyze Stress Tests for Telecom Equipment Reliability NOS Version No. 1 NSQF Level- 6	60:00	90:00	60:00	-	210:00
Module 2: Conducting and Analyzing Stress Tests	60:00	90:00	60:00	-	210:00
TEL/N7221: Implement and Monitor Quality Control NOS Version No. 1 NSQF Level- 6	30:00	30:00	30:00	-	90:00
Module 3: Developing and Implementing Quality Control Plans	30:00	30:00	30:00	-	90:00

TEL/N7222: Analyze Failures and Recommend Improvements NOS Version No. 1 NSQF Level- 6	30:00	30:00	30:00	-	90:00
Module 4: Root Cause Analysis and Corrective Actions	30:00	30:00	30:00	-	90:00
DGT/VSQ/N0103: Employability Skills (90 Hours) NOS Version No. 1 NSQF Level- 4	90:00	00:00	00:00	-	90:00
Module 5: Employability Skills (90 Hours)	90:00	00:00	00:00	-	90:00
Total Duration	270:00	210:00	180:00	-	660:00

Module Details

Module 1: Preparing and Assembling Telecom Circuit Boards

Mapped to NOS: TEL/N7219, v1.0

Terminal Outcomes:

- Assemble telecom equipment PCBs according to industry standards, meeting quality and performance specifications.
- Troubleshoot and rectify assembly defects in telecom equipment PCBs, ensuring functionality.
- Document PCB assembly processes and results effectively, adhering to company procedures.

Duration: 60:00	Duration: 60:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
• Explain the function and purpose of various electronic components (resistors, capacitors, transistors, etc.) based on their specifications and datasheets. • Discuss component specifications and their importance in PCB assembly using datasheets. • Explain proper handling and storage procedures for electronic components to prevent damage. • Compare and contrast different types of soldering techniques (wave soldering, hand soldering) and their applications. • Identify the different soldering materials and equipment (solder paste, flux, soldering irons) and their roles in the assembly process. • Explain safe soldering practices to minimize health and safety risks, including safe handling of hazardous materials (solder, flux) used in PCB assembly. • Interpret assembly procedures and sequence according to work instructions and drawings. • Explain the role of the Bill of Materials (BOM) in guiding the assembly process.	• Demonstrate how to review work instructions and process documentation for specific PCB assembly operations. • Identify required materials, components, and tools needed for the assembly task. • Verify test equipment functionality and calibration of test equipment before use. • Prepare the workstation for assembly, ensuring a clean and organized environment. • Retrieve components, verifying their part numbers and specifications against the Bill of Materials (BOM). • Place electronic components onto the PCB accurately and according to the assembly drawing. • Demonstrate soldering techniques (wave soldering or hand soldering) following industry standards. • Clean any soldering flux residue from the PCB using appropriate methods. • Perform a visual inspection of assembled PCBs, identifying defects like missing components, misaligned components, or poor soldering joints. • Demonstrate rework procedures to rectify identified defects on assembled PCBs.

• Differentiate between Surface Mount Technology (SMT) and Through-Hole Technology (THT) assembly processes. • Discuss quality standards for PCB assembly (e.g., IPC standards) and their importance. • Describe the operation of various test equipment used for assembled PCBs (functional testers, in-circuit testers). • Explain how to interpret test results and identify potential failures in assembled PCBs. • Summarize company procedures for documenting assembly activities (assembly logs, production control systems). • Explain the importance of maintaining accurate records of materials used, test results, and non-conformances encountered during assembly. • Describe proper filing systems for assembly documentation to ensure easy retrieval. • Discuss Electrostatic Discharge (ESD) control procedures and their role in protecting sensitive electronic components. • Explain the safe handling practices for hazardous materials (solder, flux) used in PCB assembly. • Discuss the importance of maintaining a clean and safe work environment to ensure quality assembly and worker well-being.	
Classroom Aids:	
Training kit (Trainer guide, Presentations), Whiteboard, Marker, Projector, Laptop, Presentation, Participant Handbook, etc.	
Tools, Equipment and Other Requirements	
Soldering iron (or soldering station), Solder, Solder paste (if applicable), Stencil (if using solder paste), Tweezers, Component cutters, Magnifying glass, Multimeter (or other test equipment), ESD workstation (or grounding equipment), Cleaning tools (e.g., flux cleaner, isopropyl alcohol), Workbench with proper lighting (Optional: Data collection and analysis software)	

Module 2: Conducting and Analyzing Stress Tests

Mapped to NOS: TEL/N7220, v1.0

Terminal Outcomes:

- Design and execute a stress test profile that simulates real-world operating conditions to identify potential failure points.
- Analyze data collected from stress tests on telecom equipment, identify failure trends and root causes, and propose corrective and preventive actions to improve product reliability

Duration: 60:00	Duration: 90:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
• Explain functionalities and critical performance parameters of various telecom equipment. • Discuss industry standards and regulations for telecom equipment reliability testing. • Explain operational stresses experienced by telecom equipment in various applications. • Describe the principles of stress testing and its role in evaluating product reliability. • Differentiate between different types of stress tests (e.g., environmental stress testing, electrical stress testing, thermal cycling). • Explain how to design effective stress test profiles to simulate real-world conditions and induce failures. • Describe the operation and functionality of various stress test equipment (e.g., temperature chambers, vibration tables, electrical stress testers). • Explain calibration procedures for stress test equipment to ensure accurate and reliable data. • Discuss data acquisition techniques for capturing and recording relevant test parameters during stress testing. • Explain statistical techniques for analyzing failure data (e.g., Weibull analysis, Pareto charts) to identify trends and patterns. • Describe techniques for performing root cause analysis to determine the underlying reasons for equipment failures. • Identify common failure modes and mechanisms observed in telecom equipment.	• Analyze typical environmental and operational conditions for targeted telecom applications. • Design stress test profiles that simulate combinations of these conditions. • Select appropriate stress test equipment based on the designed profiles. • Develop data acquisition plans for capturing and recording relevant test parameters throughout the stress test process. • Compile and organize failure data from completed stress tests. • Apply statistical techniques to analyze failure data and identify trends or patterns in failure occurrences. • Perform root cause analysis to determine the underlying reasons for equipment failures, using case study data. • Propose corrective actions to address identified weaknesses and prevent similar failures in future product revisions. • Role-play collaborating with design and manufacturing teams.

- Explain the principles of reliability engineering and their application to product design and improvement.
- Discuss techniques for implementing corrective and preventive actions to enhance product reliability.
- Explain effective communication skills for presenting findings and recommendations to design and manufacturing teams.
- Discuss the importance of collaboration with other departments to implement corrective and preventive actions.
- Describe safe operation procedures for stress test equipment, following established safety guidelines.
- Explain potential hazards associated with stress testing and appropriate safety precautions.

Classroom Aids:

Training kit (Trainer guide, Presentations), Whiteboard, Marker, Projector, Laptop, Presentation, Participant Handbook, etc.

Tools, Equipment and Other Requirements

Data acquisition software, Statistical analysis software (e.g., Weibull analysis tools), (Optional) Stress test simulation software, Telecom equipment samples (depending on specific focus), Environmental stress chambers (temperature, humidity, etc.), Vibration test equipment, Electrical stress testers, Data logging equipment, Test fixtures and adapters (for specific equipment), Reference materials (industry standards, test procedures), Personal protective equipment (PPE) for safety (depending on specific equipment)

Module 3: Developing and Implementing Quality Control Plans

Mapped to NOS: TEL/N7221, v1.0

Terminal Outcomes:

- Design, implement, and maintain a comprehensive quality control plan for telecom equipment assembly.
- Identify and address potential quality issues in telecom equipment production.

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
• Explain the principles and methodologies of quality control and quality management. • Discuss the importance of industry standards for telecom equipment quality control. • Describe the application of various quality control tools (e.g., checklists, control charts, inspection gauges). • Explain statistical process control (SPC) techniques for analyzing process data and identifying variations. • Identify critical process parameters for different stages of telecom equipment assembly (e.g., soldering temperature, component placement). • Describe techniques for data collection and analysis of process parameters. • Explain procedures for identifying, documenting, and resolving non-conformances in the assembly process. • Describe root cause analysis techniques to identify the underlying reasons for quality issues. • Explain techniques for analyzing quality data from various sources (e.g., inspections, SPC charts)	• Analyze customer specifications to identify quality requirements for assembled telecom equipment. • Demonstrate the operation of various quality control tools (e.g., checklists, control charts, inspection gauges). • Develop inspection points throughout the assembly process, defining clear acceptance criteria for each inspection point. • Role-play how to establish corrective action procedures. • Demonstrate how to select appropriate quality control tools and techniques based on scenarios. • Practice developing clear and concise documentation. • Plan and Deliver a mock training session on quality control procedures for assembly personnel. • Design and Facilitate interactive exercises to reinforce understanding of quality control principles. • Develop data collection plans that specify the frequency and method of collecting data for critical process parameters . • Simulate data collection procedures using mock data sets. • Utilize statistical process control (SPC) techniques to analyze simulated data sets (e.g., control charts, histograms) and identify any trends or deviations from established control limits. • Analyze the root cause of identified variations in simulated data sets and propose corrective actions. • Maintain control charts based on simulated

	data analysis. • Develop an internal quality audit schedule based on a risk assessment scenario. • Analyze audit findings from a pre-collected data set to identify recurring issues and areas for improvement. • Collect and Consolidate data from simulated sources relevant to quality control. • Utilize data visualization techniques (e.g., Pareto charts) to present quality control data from simulated sources.
Classroom Aids:	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Data acquisition software, Statistical analysis software (e.g., Weibull analysis tools), (Optional) Stress test simulation software, Soldering equipment, component placement tools, torque wrenches, Environmental stress chambers (temperature, humidity, etc.), Vibration test equipment, Electrical stress testers, Data logging equipment, Test fixtures and adapters (for specific equipment), Inspection gauges (various types), Microscopes, Multimeters, Hand tools (e.g., screwdrivers, pliers), Calipers, Reference materials (industry standards, test procedures), Personal protective equipment (PPE) for safety (depending on specific equipment)	

Module 4: Root Cause Analysis and Corrective Actions

Mapped to NOS: TEL/N7222, v1.0

Terminal Outcomes:

- Conduct a thorough failure analysis of telecom equipment, utilizing various techniques to identify the root cause and propose effective corrective and preventive actions.
- Collaborate effectively with design and manufacturing teams to implement agreed-upon corrective and preventive actions.

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
• Explain the principles and operation of various failure analysis techniques (visual inspection, X-ray analysis, electrical testing). • Analyze data collected from various tests (visual inspection, X-ray, electrical) to identify potential failure modes. • Explain techniques for root cause analysis (e.g., FMEA, FTA) used to determine the underlying reasons for equipment failures. • Identify common failure modes observed in telecom equipment (e.g., overheating, short circuits). • Explain the functional principles and components of various types of telecom equipment. • Analyze how design weaknesses, material deficiencies, or manufacturing process variations can contribute to equipment failures. • Explain strategies for developing effective corrective actions to address identified failure mechanisms. • Explain techniques for implementing preventive actions in design or manufacturing to minimize future failures. • Explain the importance of clear and concise technical communication for presenting failure analysis findings. • Explain the importance of effective collaboration skills for working with design and manufacturing teams to implement corrective and preventive actions.	• Demonstrate conducting visual inspections to identify potential physical defects or anomalies. • Utilize X-ray analysis or other non-destructive testing techniques. • Perform electrical testing to assess functionality and identify electrical faults or abnormal parameters. • Employ root cause analysis techniques (e.g., FMEA, FTA) to determine the underlying reasons for the failure mode. • Propose corrective actions to address the identified failure mechanism and prevent similar failures in future product revisions. • Evaluate the feasibility and cost-effectiveness of potential corrective actions. • Recommend preventive actions to be implemented in the design or manufacturing process to minimize future failures. • Demonstrate developing and communicating a clear and concise report documenting the failure analysis process, findings, root cause, and recommended corrective and preventive actions.

Classroom Aids:

Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films

Tools, Equipment and Other Requirements

Hand tools (e.g., screwdrivers, pliers), Multimeters, Microscopes, Reference materials (failure analysis procedures, industry standards), Personal protective equipment (PPE) for safety, X-ray machines, Environmental stress chambers (temperature, humidity, etc.), Vibration test equipment, Specialized software for specific analysis techniques (e.g., thermal imaging), Computers with data analysis and report writing software, Presentation software (optional)

Module 5: Employability Skills

Mapped to NOS: DGT/VSQ/N0103

Mandatory Duration: 90:00			
Location: On-Site			
S.No.	Module Name	Key Learning Outcomes	Duration(hours)
1.	Introduction to Employability Skills	- Outline the importance of Employability Skills for the current job market and future of work - List different learning and employability related GOI and private portals and their usage - Research and prepare a note on different industries, trends, required skills and the available opportunities	3 Hours
2.	Constitutional values - Citizenship	- Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen - Demonstrate how to practice different environmentally sustainable practices	1.5 Hours
3.	Becoming a Professional in the 21st Century	- Discuss relevant 21st century skills required for employment - Highlight the importance of practicing 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 - Create a pathway for adopting a continuous learning mindset for personal and professional development	5 Hours
4.	Basic English Skills	- Show how to use basic English sentences for everyday conversation in different context in person over the telephone - Read and understand text written in basic English - Write a short note/paragraph / letter/e -mail using correct basic English	10 Hours

5.	Career Development & Goal Setting	- Create a career development plan - Identify well-defined short- and long-term goals	4 Hour
6.	Communication Skills	- Demonstrate how to communicate effectively using verbal and nonverbal communication etiquette - Write a brief note/paragraph on a familiar topic - Explain the importance of communication etiquette including active listening for effective communication - Role play a situation on how to work collaboratively with others in a team	10 Hour
7.	Diversity and Inclusion	- Demonstrate how to behave, communicate, and conduct appropriately with all genders and PwD - Discuss the significance of escalating sexual harassment issues as per POSH act	2.5 Hours
8.	Financial and Legal Literacy	- Discuss various financial institutions, products, and services - Demonstrate how to conduct offline and online financial transactions, safely and securely and check passbook/statement - Explain the common components of salary such as Basic, PF, Allowances (HRA, TA, DA, etc.), tax deductions - Calculate income and expenditure for budgeting - Discuss the legal rights, laws, and aids	10 Hours
9.	Essential Digital Skills	- Describe the role of digital technology in day-to-day life and the workplace - Demonstrate how to operate digital devices and use the associated applications and features, safely and securely - Demonstrate how to connect devices securely to internet using different means - Follow the dos and don'ts of cyber security to protect against cyber crimes	20 Hours

		- Discuss the significance of displaying responsible online behavior while using various social media platforms - Create an e-mail id and follow e-mail etiquette to exchange e-mails - Show how to create documents, spreadsheets and presentations using appropriate applications - utilize virtual collaboration tools to work effectively	20 Hours
10.	Entrepreneurship	- 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 mitigation plan - Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement - Create a sample business plan, for the selected business opportunity	7 Hours
11.	Customer Service	- Classify different types of customers - Demonstrate how to identify customer needs and respond to them in a professional manner - Discuss various tools used to collect customer feedback - Discuss the significance of maintaining hygiene and dressing appropriately	9 Hours
12.	Getting ready for apprenticeship & Jobs	- Draft a professional Curriculum Vitae (CV) - Use various offline and online job search sources to find and apply for jobs - Discuss the significance of maintaining hygiene and dressing appropriately for an interview - Role play a mock interview - List the steps for searching and registering for apprenticeship opportunities	8 Hours

LIST OF TOOLS & EQUIPMENT FOR EMPLOYABILITY SKILLS

S. No.	Name of the Equipment	Quantity
1.	Computer (PC) with latest configurations – and Internet connection with standard operating system and standard word processor and worksheet software (Licensed) (all software should either be latest version or one/two version below)	As required
2.	UPS	As required
3.	Scanner cum Printer	As required
4.	Computer Tables	As required
5.	Computer Chairs	As required
6.	LCD Projector	As required

7.	White Board 1200mm x 900mm	As required
<i>Note: Above Tools & Equipment not required, if Computer LAB is available in the institute.</i>		

Module 6: On-the-Job Training

Mapped to Reliability & Quality Control Manager

Mandatory Duration: 180:00	Recommended Duration: 00:00
Module Name: On-the-Job Training	
Location: On Site	
Terminal Outcomes 1. Demonstrate the ability to accurately prepare and assemble PCBs for telecom equipment, ensuring all components are correctly placed and soldered. 2. Select appropriate components for PCB assembly and handle them in a manner that prevents damage and contamination. 3. Follow standardized assembly protocols and procedures to ensure consistency and reliability in PCB production. 4. Conduct stress tests on telecom equipment to evaluate its reliability under various conditions, including thermal, mechanical, and electrical stress. 5. Collect and analyze data from stress tests to identify potential points of failure and areas for improvement in telecom equipment. 6. Understand and apply key reliability metrics to assess the performance and durability of telecom equipment. 7. Implement and monitor quality control procedures throughout the assembly process to ensure all products meet required standards and specifications. 8. Perform thorough inspections and testing of assembled PCBs to detect defects and ensure quality compliance. 9. Develop and implement strategies for continuous quality improvement, based on quality control data and feedback. 10. Apply advanced failure analysis techniques to investigate the root causes of defects and failures in telecom equipment. 11. Develop and recommend corrective actions to address identified failures and prevent recurrence. 12. Maintain detailed documentation of failure analysis processes, findings, and implemented improvements, ensuring transparency and traceability. 13. Collaborate with design, manufacturing, and quality assurance teams to communicate findings and implement improvements based on failure analysis. 14. Ensure all reliability, quality control, and failure analysis activities comply with industry standards and organizational requirements.	

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Engineering Diploma in (Electronics/Telecom/IT)	NA	11		6		
Graduate (Electronics/Telecom/IT)	NA	6		3		

Trainer Certification	
Domain Certification	Platform Certification
Job Role “ Reliability & Quality Control Manager ”, “TEL/Q7206, v1.0”, Minimum accepted score is 80%.	Trainer is certified for the job role “ Trainer (VET & SKILLS) ”; mapped to Qualification Pack: - “MEP/Q2601, v2.0” with minimum 80% of score.

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
Engineering Diploma in (Electronics/Telecom/IT)	NA	11				
Graduate (Electronics/Telecom/IT)	NA	6				

Assessor Certification	
Domain Certification	Platform Certification
Job Role “ Reliability & Quality Control Manager ”, “TEL/Q7206, v1.0”, Minimum accepted score is 80%.	Assessor is certified for the job role “ Assessor (VET & SKILLS) ”; mapped to Qualification Pack: - “MEP/Q2701, v2.0” with minimum 80% of score.

Assessment Strategy

1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SDSM/SIP or email.
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC.
- The 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.
- An assessor must be ToA certified & the trainer must be ToT Certified.
- The 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.
- Center 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:

- A surprise visit to the assessment location.
- A 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	A key learning outcome is a 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	The terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome.

Acronyms and Abbreviations

Term	Description
NOS	National Occupational Standard (s)
NSQF	National Skills Qualifications Framework
OJT	On-the-job Training
QP	Qualifications Pack
PwD	People with Disability
PPE	Personal Protective Equipment