







Model Curriculum

QP Name: Calibration Technician

QP Code: CSC/Q0801

Version: 2.0

NSQF Level: 4

Model Curriculum Version: 1.0

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Table of Contents

Training Parameters	3
Program Overview	5
Training Outcomes	5
Compulsory Modules	5
Module 1: Introduction to the role of a Calibration Technician	7
Module 2: Health and safety Practices	8
Module 3: Process of coordinating with co-workers to achieve work efficiency1	.2
Module 4: Process of calibrating hydraulic, pneumatic and mechanical measuring and control equipment1	.4
Module 5: Process of calibrating electrical and electronic measuring and control equipment1	.7
Annexure2	0
Trainer Requirements2	0
Assessor Requirements2	1
Assessment Strategy2	2
References2	4
Glossary2	4
Acronyms and Abbreviations2	5







Training Parameters

Sector	Capital Goods
Sub-Sector	Machine Tools, Plastics Manufacturing Machinery, Textile Manufacturing Machinery, Process Plant Machinery, Electrical and Power Machinery
Occupation	Calibration and Instrumentation
Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7311.67
	8th Class Pass + ITI (2years) with 2 years of experience in the relevant field
	OR
	10th Class Pass with 2 years of experience in the relevant field
	OR
Minimum Educational Qualification and	10th Class Pass + ITI (1 year) with 1 year of experience in the relevant field
Minimum Educational Qualification and Experience	OR
·	10th Class Pass + ITI (2 years)
	OR
	12th Class Pass with 6 months of experience in the relevant field
	OR
	Certified in NSQF-L3 Operator - Calibration and Instrumentation with 2 years of experience in the relevant field
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	NA
Next Review Date	NA
NSQC Approval Date	NA
QP Version	2.0







Model Curriculum Creation Date	NA
Model Curriculum Valid Up to Date	NA
Model Curriculum Version	1.0
Minimum Duration of the Course	420 Hours
Maximum Duration of the Course	420 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:

- Explain the importance of following the health and safety practices at work.
- Demonstrate ways to coordinate with co-workers to achieve work efficiency.
- Demonstrate the process of calibrating hydraulic, pneumatic and mechanical measuring and control equipment.
- Demonstrate the process of calibrating electrical and electronic measuring and control equipment.

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	04:00	00:00	0:00	00:00	04:00
Module 1: Introduction to the role of a Calibration Technician	04:00	0:00	0:00	00:00	04:00
CSC/N1335 Follow the health and safety practices at work NOS Version- 2.0 NSQF Level- 3	20:00	60:00	0:00	00:00	80:00
Module 2: Health and safety practices	20:00	60:00	0:00	00:00	80:00
CSC/N1336 Coordinate with co-workers to achieve work efficiency NOS Version-2.0 NSQF Level- 3	20:00	60:00	0:00	00:00	80:00
Module 3: Process of coordinating with coworkers to achieve work efficiency	20:00	60:00	0:00	00:00	80:00
CSC/N0801 Calibrate hydraulic, pneumatic and mechanical measuring and control equipment	40:00	90:00	0:00	00:00	130:00







NOS Version- 2.0 NSQF Level- 4					
Module 4: Process of calibrating hydraulic, pneumatic and mechanical measuring and control equipment	40:00	90:00	0:00	00:00	130:00
CSC/N0802 Calibrate electrical and electronic measuring and control equipment NOS Version- 2.0 NSQF Level- 4	36:00	90:00	0:00	00:00	126:00
Module 5: Process of calibrating electrical and electronic measuring and control equipment	36:00	90:00	0:00	00:00	126:00
Total Duration	120:00	300:00	0:00	00:00	420:00







Module Details

Module 1: Introduction to the role of a Calibration Technician *Bridge Module*

Terminal Outcomes:

• Discuss the job role of a Calibration Technician.

Duration: 04:00	Duration: 0:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Describe the size and scope of the capital good industry and its sub- sectors. 	
 Discuss the role and responsibilities of a Calibration Technician. 	
 Identify various employment opportunities for a Calibration Technician. 	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, White	eboard, Marker, Projector, Laptop, Video Films
Tools, Equipment and Other Requirements	
NA	







Module 2: Health and safety Practices Mapped to CSC/N1335 v2.0

Terminal Outcomes:

- Demonstrate ways to maintain personal health and safety.
- Describe the process of assisting in hazard management.
- Explain how to check the first aid box, firefighting and safety equipment.
- Describe the process of assisting in waste management.
- Explain the importance of following the fire safety guidelines.
- Explain the importance of following the emergency and first-aid procedures.
- Demonstrate the process of carrying out relevant documentation and review.

Duration: 20:00	Duration: 60:00		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
 Explain the recommended practices to be followed to ensure protection from infections and transmission to others, such as the use of hand sanitizer and face mask. 	 Demonstrate the use of appropriate Personal Protective Equipment (PPE) relevant to the task and work conditions. Demonstrate how to handle 		
 Explain the importance and process of checking the work conditions, assessing the potential health and safety risks, and take appropriate measures to mitigate them. 	 hazardous materials safely. Demonstrate the process of testing the firefighting and various safety equipment to ensure they are in usable condition. 		
 Explain the importance and process of selecting and using the appropriate PPE relevant to the task and work conditions. 	 Demonstrate the process of recycling and disposing different types of waste appropriately. 		
 Explain the recommended techniques to be followed while lifting and moving heavy objects to avoid injury. 	 Demonstrate how to use the appropriate type of fire extinguisher to extinguish different types of fires safely. 		
 Explain the importance of following the manufacturer's instructions and workplace safety guidelines while working on heavy machinery, tools and equipment. 	 Demonstrate how to administer appropriate first aid to the injured personnel. Demonstrate the process of performing Cardiopulmonary 		
 Explain the importance and process of identifying existing and potential hazards at work. Describe the process of assessing the 	 Resuscitation (CPR) on a potential victim of cardiac arrest. Demonstrate the process of carrying out appropriate documentation following a health and safety incident 		
 potential risks and injuries associated with the various hazards. Explain how to prevent or minimise different types of hazards. 	at work, including all the required information.		







- Explain how to handle and store hazardous materials safely.
- Explain the importance of ensuring the first aid box is updated with the relevant first aid supplies.
- Describe the process of checking and testing the firefighting and various safety equipment to ensure they are in a usable condition.
- Explain the criteria for segregating waste into appropriate categories.
- Describe the appropriate methods for recycling the recyclable waste.
- Describe the process of disposing of the non-recyclable waste safely and the applicable regulations.
- Explain the use of different types of fire extinguishers to extinguish different types of fires.
- State the recommended practices to be followed for a safe rescue during a fire emergency.
- Explain how to request assistance from the fire department to extinguish a serious fire.
- Explain the appropriate practices to be followed during workplace emergencies to ensure safety and minimise loss to organisational property.
- State the common health and safety hazards present in a work environment, associated risks, and how to mitigate them.
- State the safe working practices to be followed while working at various hazardous sites and using electrical equipment.
- Explain the importance of ensuring easy access to firefighting and safety equipment.
- Explain the appropriate preventative and remedial actions to be taken in the case of exposure to toxic materials, such as poisonous







chemicals and gases.

- Explain various causes of fire in different work environments and the recommended precautions to be taken to prevent fire accidents.
- Describe different methods of extinguishing fire.
- List different materials used for extinguishing fire.
- Explain the applicable rescue techniques to be followed during a fire emergency.
- Explain the importance of placing safety signs and instructions at strategic locations in a workplace and following them.
- Explain different types of first aid treatment to be provided for different types of injuries.
- State the potential injuries associated with incorrect manual handling.
- Explain how to move an injured person safely.
- State various hazards associated with the use of various machinery, tools, implements, equipment and materials.
- Explain the importance of ensuring no obstruction and free access to fire exits.
- Explain how to free a person from electrocution safely.
- Explain how to administer appropriate first aid to an injured person.
- Explain how to perform Cardiopulmonary Resuscitation (CPR).
- Explain the importance of coordinating with the emergency services to request urgent medical assistance for persons requiring professional medical attention or hospitalisation.
- State the appropriate documentation







to be carried out following a health and safety incident at work, and the relevant information to be included.

- Explain the importance and process of reviewing the health and safety conditions at work regularly or following an incident.
- Explain the importance and process of implementing appropriate changes to improve the health and safety conditions at work.

Classroom Aids

Computer, Projection Equipment, PowerPoint Presentation and Software, Facilitator's Guide, Participant's Handbook.

Tools, Equipment and Other Requirements

Personal Protective Equipment, Cleaning Equipment and Materials, Sanitizer, Soap, Mask







Module 3: Process of coordinating with co-workers to achieve work efficiency

Mapped to NOS CSC/N1336 v2.0

Terminal Outcomes:

- Demonstrate ways to Work and communicate effectively with co-workers.
- Discuss ways to promote diversity and inclusion at the workplace.

Duration: 20:00	Duration: 60:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Explain the importance and process of effective communication in the workplace. Explain the barriers to effective communication and how to overcome them. Explain the importance of teamwork in an organisation's and individual's success. 	 Demonstrate the process of preparing the relevant documents and reports as per the supervisor's instructions, providing appropriate information clearly and systematically. Demonstrate how to mentor and assist subordinates in the execution of their work responsibilities.
 Explain the importance of active listening in the work environment. State the appropriate techniques to 	 Demonstrate the process of using various resources efficiently to ensure maximum utilisation and minimum wastage.
 be followed for active listening. Explain the importance of tone and pitch ineffective communication. 	Demonstrate how to communicate clearly and politely to ensure effective communication with co-
 Explain the importance of avoiding casual expletives and unpleasant terms while communicating professional circles. 	 workers. Demonstrate appropriate verbal and non-verbal communication that is respectful of genders and disability.
 Explain the importance of maintaining discipline and ethical behaviour at work. 	
 State the common reasons for interpersonal conflict and how to resolve them. 	
 Explain the importance of developing effective working relationships for professional success. 	
 Describe the process of expressing and addressing grievances appropriately and effectively. 	
 Explain the importance and process of planning daily tasks to ensure their timely completion and efficient use of 	







time.

- Explain the importance of adhering to the limits of authority at work.
- Explain the importance of following the applicable quality standards and timescales at work.
- Explain the importance of coordinating with co-workers to achieve the work objectives efficiently.
- Explain the relevant documentation requirements.
- Explain the importance of providing appropriate information clearly and systematically in work documents.
- State the escalation matrix to be followed to deal with out of authority tasks and concerns.
- Explain the importance and process of mentoring and assisting subordinates in the execution of their work responsibilities.
- Explain how to identify possible disruptions to work prevent them.
- Explain how to use various resources efficiently to ensure maximum utilisation and minimum wastage.
- Explain the recommended practices to be followed at work to avoid and resolve conflicts at work.
- Explain the importance and process of efficient and timely dissemination of information to the authorised personnel.
- Explain the procedure to report inappropriate behaviour e.g., harassment.

Classroom Aids:

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

Tools, Equipment and Other Requirements

NA







Module 4: Process of calibrating hydraulic, pneumatic and mechanical measuring and control equipment Mapped to CSC/N0801 v2.0

Terminal Outcomes:

- Describe the process of preparing for testing and calibration activities.
- Demonstrate the process of testing the measuring and control equipment.
- Demonstrate the process of analysing and reporting the test results.
- Demonstrate the process of calibrating the measuring and control equipment.
- Explain the importance of using resources optimally.

Duration: 40:00 Duration: 90:00					
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes				
 State the applicable standards and regulations regarding the use of measuring equipment. 	 Demonstrate how to repair and replace the testing tools and equipment, as appropriate. 				
 Explain the concepts and benefits of Industry 4.0 and Industrial Internet of Things (IIoT). 	 Demonstrate the process of conducting various tests such as standard serviceability/calibration 				
 Describe the process of testing and calibrating the measuring equipment, and the use of relevant tools and 	test; special-to-type test; operational/function checks; gauge repeatability and reliability test, etc.				
equipment such as pressure gauge, standard test gauges, micrometre, jigs and fixtures, insulation tester, Vernier calliper, deadweight tester,	 Demonstrate how to inspect and test the operation of instruments and systems using the appropriate testing devices. 				
 manometers, gyroscope, etc. Describe the standard procedure for commissioning and recommissioning measuring equipment. 	 Demonstrate the process of carry out appropriate documentation with respect to the testing/calibration activities. 				
 Explain the specifications, components and operations of various measuring equipment. 	 Demonstrate the process of calibrating the measuring and control equipment according to the 				
 List the appropriate checks to be conducted on the measuring equipment. 	manufacturer specifications, applicable physical standards and requirements.				
 List common faults found in measuring equipment and how to rectify them. 	 Show how to use the appropriate calibration tools, equipment, and techniques as per the standard procedure. 				
 Explain the use of the relevant techniques for checking the calibration of measuring equipment for conformance to specifications. 	 Show how to conduct zero and span check on indicators/controllers using the appropriate configuration. 				
 Describe the process of calibrating the measuring equipment according 	 Demonstrate the use of various industry 4.0 manufacturing 				







to the applicable physical standards.

- Explain the effects of various faults on the performance and accuracy of measuring equipment.
- List various hazards and controls associated with calibrating measuring equipment.
- Explain the functions of various measuring equipment and applicable tolerance levels for calibration.
- State the applicable instrumentation principles such as controlling density, level, flow, temperature, composition, etc.
- State the principles of hydraulic and pneumatic flow.
- State the application principles for assessing the operation of instrumentation systems/ equipment and components.
- Explain the use of relevant equipment for inspecting and testing the instrumentation system.
- Describe the procedures to be followed for calibrating the instrumentation systems/ equipment and components.
- State the relevant dismantling, reassembly and testing techniques.
- Explain the operations and specifications of the instrumentation system/equipment and acceptable deviations.
- Describe the applicable procedures for isolating instrumentation systems.
- List various faults found in the instrumentation system/equipment components.
- Describe the process of checking and verifying the operational function of the instrumentation system/equipment.
- Describe the process of recording and completing service reports.

technologies.

- Demonstrate the process of carry out appropriate documentation such as job cards, progress records, incident reports, calibration and test reports as per the organisational procedures.
- Demonstrate how to use electricity and other resources optimally in various tasks and processes.







- Explain how to deal with variations between test results and operational specifications.
- List various faults found in the instrumentation system/equipment and components.
- Describe the process of repairing faulty instrumentation system/ equipment.
- Describe the process of conducting zero and span checks on instrumentation systems/equipment.
- Explain functions of load cells/strain gauges, transducers, mechanical governors, control valves, valve actuators, positioners, etc.
- Explain the benefits and methods of resource optimisation.

Classroom Aids

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

Tools, Equipment and Other Requirements

Load Cells, Strain Gauges, Transducers, Mechanical Governors, Pressure Gauges, Micrometers, Jigs and Fixtures, Templates and Patterns, Insulation Testers, Vernier Calliper, Dead Weight Tester, Manometers, Gyroscope, Screw Driver, Testers etc.







Module 5: Process of calibrating electrical and electronic measuring and control equipment

Mapped to CSC/N0802 v2.0

Terminal Outcomes:

- Describe the process of planning and carrying out the testing activities.
- Demonstrate the process of analysing and reporting the test results.
- Demonstrate the process of calibrating the measuring and control equipment.

Duration: 36:00	Duration: 90:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 State the applicable standards and regulations with respect to the electrical and electronic measuring and control equipment and their calibration. 	Demonstrate the process of conducting the relevant tests such as gauge repeatability and reliability tests; special-to-type tests; etc.
Describe the standard procedures for testing and calibrating the electrical and electronic measuring and control equipment, and the use of relevant	 Demonstrate how to test the operation of instruments and systems to diagnose faults using the appropriate testing devices. Demonstrate how to test various
 Describe the process of commissioning and recommissioning electrical and electronic measuring and control equipment. 	components such as sensors, transmitters, converters, indicators, analysers, controllers, circuit boards to determine faults/ wear and tear/damage.
 State the recommended electrical and electronic measuring and control equipment specifications to be maintained. 	 Demonstrate how to test the sensor units associated with determining/controlling density, level, flow, temperature, the
 Describe the process of testing and calibrating various components such as sensors, transmitters, converters, indicators, analysers, controllers, power supply units, removable circuit boards, sensor units, etc. 	 composition of a range of materials, for the correct functioning. Demonstrate the process of carrying out relevant documentation regarding the testing activities.
 Explain the functions of various sensor units that determine/control density, level, flow, temperature, composition etc. 	 Demonstrate the process of calibrating the control and measuring equipment according to the applicable physical standards and manufacturer specifications.
 List the appropriate techniques to be used to check the calibration of measuring and control equipment and ensure their conformance to the recommended/ manufacturer specifications and physical standards. List the common faults found in the 	 Show how to use the relevant calibration tools and equipment such as oscilloscope, pressure gauge, current injection device, voltmeter, analogue and digital meter appropriately. Demonstrate the process of carrying







electrical and electronic measuring and control equipment, their effects on the performance/accuracy on equipment performance, and how to rectify them.

- List various hazards associated with calibration of electrical and electronic measuring and control equipment and how to minimise them.
- State the appropriate tolerance levels for calibration of electrical and electronic measuring and control equipment.
- Explain the effects of resistance, capacitance, inductance and impedance upon electrical circuit including Resistance-Inductance-Capacitance (RLC) series circuit.
- Explain how to interpret schematics, wiring and block diagrams.
- Explain the principles of electrical flow.
- Explain the purpose/operational functions of the instrumentation system.
- Describe the process for inspecting, testing, calibrating and repairing instrumentation systems and equipment/ components.
- State the recommended specifications for the relevant instrumentation system and acceptable deviations.
- Explain the applicable dismantling, reassembly and testing techniques.
- Describe the process of isolating instrumentation systems.
- List various faults found in instrumentation system/equipment components, their causes and how to rectify them.
- Describe the procedure for checking and verifying the operational function of the instrumentation system/equipment.
- Explain how to deal with variations

out appropriate documentation such as job cards, as per the organisational procedures.







between test results and operational specifications of the instrumentation system.

- List various errors indicated by builtin devices and how to rectify them.
- Describe the process for documenting test and calibration results.
- Explain the function and process of conducting zero and span checks on instrumentation systems/equipment.

Classroom Aids

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

Tools, Equipment and Other Requirements

Sensors, Transmitters, Converters, Indicators, Analyzers, Controllers, Power Supplies, Removable Circuit Boards, Absolute Gauge, Orifice Plate, Venturi Tube, Pressure Cell, Load Cells, Thermo Couples, Fiscal Metering Equipment, Speed Control Equipment, Speed Measurement Equipment, Vibration Switches, Proximity Probes, Linear Variable Differential Transducer, Oxygen Analyzer, Telemetry Systems, Potentiometer, Multimeter, Cathode Ray Oscilloscope







Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational	Specialization	Relevant Industry Experience				Remarks
Qualification		Years	Specialization	Years	Specialization	
Diploma /Degree	Diploma /Degree in Mechanical Engineering	4	Calibration Technician	0		Practical skills and knowledge required in the relevant field

Trainer Certification				
Domain Certification	Platform Certification			
Certified for Job Role: "Calibration Technician" mapped to QP: "CSC/Q0801, v1.0". Minimum accepted score is 80%	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "MEP/Q0102". Minimum accepted as per respective SSC guidelines is 80%.			







Assessor Requirements

Assessor Prerequisites								
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks		
		Years	Specialization	Years	Specialization			
Diploma /Degree	Diploma /Degree in Mechanical Engineering	4	Calibration Technician	0		Practical skills and knowledge required in the relevant field		

Assessor Certification					
Domain Certification	Platform Certification				
Certified for Job Role: "Calibration Technician" mapped to QP: "CSC/Q0801, v1.0". Minimum accepted score is 80%	Certified for the Job Role: "Assessor", mapped to the Qualification Pack: "MEP/Q2701, v1.0", with a minimum score of 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
 - The assessment agency deploys the ToA certified Assessor for executing the assessment
 - SSC monitors the assessment process & records
- 2. Testing Environment

To ensure a conducive environment for conducting a test, the trainer will:

- 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 10 a.m. and 5 p.m. respectively
- Ensure there are 2 Assessors if the batch size is more than 30.
- 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 levels 1 to 3 are for the unskilled & semiskilled individuals, and levels 4 and above are for the skilled, supervisor & higher management
 - The assessor must be ToA certified and 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
 - 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:

To verify the details submitted by the training centre, the assessor will undertake:

- A surprise visit to the assessment location
- A random audit of the batch
- A random audit of any candidate
- 6. Method for assessment documentation, archiving, and access

To protect the assessment papers and information, the assessor will ensure:

• 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 on the Hard drive







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	The 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
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 Skills Qualification Committee	
NSQF	National Skills Qualification Framework	
OJT	On-the-Job Training	
OMR	Optical Mark Recognition	
PC	Performance Criteria	
PwD	Persons with Disabilities	
QP	Qualification Pack	
SDMS	Skill Development & Management System	
SIP	Skill India Portal	
SSC	Sector Skill Council	
тс	Trainer Certificate	
ТоА	Training of Assessors	
ТоТ	Training of Trainers	
TP	Training Provider	