







Model Curriculum

QP Name: Lab Technician – Metal Testing

QP Code: CSC/Q0602

Version: 3.0

NSQF Level: 4

Model Curriculum Version: 3.0

Capital Goods Skill Council || Awfice Space Solutions Pvt. Ltd, 1st Floor, L-29, Outer Circle, Connaught Place, New Delhi – 110001





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Training Parameters

Sector	Capital Goods	
Sub-Sector	Machine Tools, Dies, Moulds and Press Tools, Plastics Manufacturing Machinery, Textile Manufacturing Machinery, Process Plant Machinery,Electrical and Power Machinery, Light Engineering Goods	
Occupation	Quality	
Country	India	
NSQF Level	4	
Aligned to NCO/ISCO/ISIC Code	NCO-2015/8122.6900	
Minimum Educational Qualification and Experience	10th Grade Pass with 2 years of relevant experience OR 11th Grade Pass with 1 year of relevant experience OR 10th grade pass and pursuing continuous schooling OR 8th pass plus 2-year NTC plus 1-Year NAC plus 1-Year CITS OR 10th grade pass with two years of any combination of NTC/NAC/CITS or equivalent OR Pursuing 2nd year of 3-year regular Diploma (after 10th) OR Completed 2nd year of 3-year diploma (after 10th) OR 12th grade pass OR Operator - Quality Level 3 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	NA	
NSQC Approval Date	ΝΑ	
QP Version	3.0	
Model Curriculum Creation Date	NA	
Model Curriculum Valid Up to Date	NA	
Model Curriculum Version 3 Lab Technician – Metal Testing	3.0	





L GOODS SKILL COUNCIL	सवैशल भारत
Minimum Duration of the Course	480 Hours
Maximum Duration of the Course	480 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 carrying out metal testing in the lab.

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
CSC/N1335 Follow the health and safety practicesat work NSQF Level- 3	25:00	35:00	0:00	00:00	60:00
Module 1: Introduction to the role of a Lab Technician – Metal Testing	05:00	0:00	0:00	00:00	05:00
Module 2: Health and safety practices	20:00	35:00	0:00	00:00	55:00
CSC/N1336 Coordinate withco- workers to achieve work efficiency NSQF Level- 3	10:00	20:00	0:00	00:00	30:00
Module 3: Process of coordinating with co- workers to achieve work efficiency	10:00	20:00	0:00	00:00	30:00
CSC/N0602 Carry out metal testing in the lab NSQF Level- 4	115:00	155:00	0:00	00:00	270:00
Module 4: Process of carrying out metal testing inthe lab	115:00	155:00	0:00	00:00	270:00
DGT/VSQ/N0102 - Employability Skills (60 hours) NSQF Level – 5	24:00	36:00	00:00	00:00	60:00
Module 5: Introduction to Employability Skills	0.5:00	1:00	00:00	00:00	1.5:00
Module 6: Constitutional	0.5:00	1:00	00:00	00:00	1.5:00

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values - Citizenship				વાયલા મારત - જુરાલ મારત	
Module 7: Becoming a Professional in the 21st Century	1:00	1.5:00	00:00	00:00	2.5:00
Module 8: Basic English Skills	4:00	6:00	00:00	00:00	10:00
Module 9: Career Development & Goal Setting	1:00	1:00	00:00	00:00	2:00
Module 10: Communication Skills	2:00	3:00	00:00	00:00	5:00
Module 11: Diversity & Inclusion	1:00	1.5:00	00:00	00:00	2.5:00
Module 12: Financial and Legal Literacy	2:00	3:00	00:00	00:00	5:00
Module 13: Essential Digital Skills	4:00	6:00	00:00	00:00	10:00
Module 14: Entrepreneurship	3:00	4:00	00:00	00:00	7:00
Module 15: Customer Service	2:00	3:00	00:00	00:00	5:00
Module 16: Getting ready for apprenticeship & Jobs	3:00	5:00	00:00	00:00	8:00
Total Duration	174:00	246:00	60:00	00:00	480:00





Module Details

Module 1: Introduction to the role of a Lab Technician – Metal Testing Bridge Module

Terminal Outcomes:

• Discuss the job role of a Lab Technician – Metal Testing.

Duration: 05:00	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 Lab Technician – Metal Testing. 	
 Identify various employment opportunities for a Lab Technician – Metal Testing. 	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, White	board, 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.

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





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- 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





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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: 10:00	Duration: 20:00
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 be followed for active listening. Explain the importance of tone and pitch ineffective communication. Explain the importance of avoiding casual expletives and unpleasant terms while communicating professional circles. Explain the importance of maintaining discipline and ethical behaviour at work. 	 Demonstrate the process of using various resources efficiently toensure maximum utilisation and minimum wastage. Demonstrate how to communicate clearly and politely to ensure effective communication with coworkers. Demonstrate appropriate verbal and non-verbal communication that is respectful of genders and disability.
 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 	





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time.

- Explain the importance of adheringto 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 carrying out metal testing in the lab Mapped to CSC/N0602 v2.0

Terminal Outcomes:

- Describe the process of preparing for carrying out metal testing.
- Demonstrate the process of carrying out metal testing.
- Explain the importance of using resources optimally.

	Duration: 155:00		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
• Explain the concepts and benefits of Industry 4.0 and Industrial Internet of Things (IIoT).	 Demonstrate how to assemble and calibrate the testing tools and equipment for carrying out metal testing. 		
 Describe the process of maintaining various records manually and electronically. 	 Show how to prepare the test samples following the applicable 		
• Explain the importance of recording the relevant information during the various stages of testing.	 procedures, and check their integrity. Demonstrate the process of carrying out the required tests following the 		
 List different types of metals, metal alloys and non-metals and various 	recommended process, such as the microscopic study of metal samples.		
methods and techniques followed for their testing.	 Demonstrate how to test the properties and stresses of a variety of metal alloys 		
 State the terminology relevant to metal testing procedures. 	metal alloys.Demonstrate how to operate the		
 Explain the principles of metal testing and appropriate tests to be 	laboratory furnaces taking the relevant safety precautions.		
 conducted on various metals. List different types of chemicals, equipment and meters used for 	 Demonstrate the process of carrying out minor repair and maintenance of the testing tools and equipment. 		
testing different types of material such as cast iron, bronze; low-carbon, low alloy, high yield and stainless steel; aluminium/aluminium alloys.	 Prepare sample records manually and electronically with respect to the testing activities undertaken in the lab. 		
 Explain how to set various operational performance parameters on testing equipment and meters, such as omissions, leaks, 	 Demonstrate how to analyse the testing data to draw appropriate conclusions, and prepare the relevant reports. 		
contamination etc.Explain the importance of monitoring the equipment settings and	 Demonstrate the use of various industry 4.0 manufacturing technologies. 		
functioning during the testing process.Explain the criteria for selecting	 Demonstrate the process of optimising the usage of electricity and other resources in various tasks 		





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and techniques.

- State the relevant health, safety and environmental regulations to be adhered to while carrying out lab testing.
- Describe the process of sampling different types of metals for testing.
- Describe the process of preparing, handling and storing metal samples.
- List various hazards associated with metal testing such as hot equipment and materials/products, moving loads, rotating/moving equipment and how to minimise them.
- Explain the applicable quality control requirements in metal testing processes.
- Explain how to set up various metal testing tools, equipment, instruments, test materials and consumables for use.
- Describe the process of determining the requirement of testing equipment to be used and the precautions to be taken while handling them.
- Explain the use of the relevant testing tools and equipment.
- Explain the importance of carrying out various tests as per the defined procedure.
- Explain the importance and process of testing the equipment calibration.
- List the circumstances under which the test equipment and the metal test samples may be deemed unsuitable for the testing activities and the appropriate action to be taken.
- Explain the importance of conducting metal testing according to the production and quality control procedures.
- List various problems encountered during metal testing and how to





prevent and resolve them.

• Explain the benefits and methods of resource optimisation.

Classroom Aids

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

Tools, Equipment and Other Requirements

Metal Samples, Universal Testing Machine, Carbon and Sulphur Determination Apparatus, Melt Flow Index Apparatus, Impact Hardness Tester, Measuring Microscope, Ferrite Meter, Spectrometer and Hand Tools, Personal Protective Equipment (PPE)





• Discuss about Employability Skills in meeting the job requirements

Duration: <0.5:00>	Duration: <1:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
• Discuss the importance of Employability Skills in meeting the job requirements	 List different learning and employability related GOI and private portals and their usage
Classroom Aids:	·
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	





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			





• Demonstrate professional skills required in 21st century

Duration: <1:00>	Duration: <1.5:00> Practical – Key Learning Outcomes	
Theory – Key Learning Outcomes		
 Discuss 21st century skills. Describe the benefits of continuous learning 	• 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.	
Classroom Aids:		
Whiteboard, marker pen, projector		
Tools, Equipment and Other Requirements		





• 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					





• 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





• 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			

Module 12: Diversity & Inclusion





• 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





• 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				





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

Duration: <6:00>			
Practical – Key Learning Outcomes			
to operate digital devices and associated applications and afely and securely mple word documents, excel and presentations using basic rual collaboration tools to work			

Module 15: Entrepreneurship





• 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 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 				
Classroom Aids:					
Whiteboard, marker pen, projector					
Tools, Equipment and Other Requirements					





• Describe ways of maintaining customer.

Duration: <3:00>				
Practical – Key Learning Outcomes				
 Demonstrate how to maintain hygiene and dressing appropriately. 				





• Describe ways of preparing for apprenticeship & Jobs appropriately.

Practical – Key Learning Outcomes				
 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 				





Annexure

Trainer Requirements

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

Trainer Certification				
Domain Certification	Platform Certification			
Certified for Job Role: " Lab Technician – Metal Testing " mapped to QP: "CSC/Q0602, v1.0". Minimum accepted score is 80%	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "MEP/Q2601". Minimum accepted as per respective SSC guidelines is 80%.			





Assessor Requirements

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

Assessor Certification		
Domain Certification	Platform Certification	
Certified for Job Role: " Lab Technician – Metal Testing " mapped to QP: "CSC/Q0602, v1.0". Minimum accepted score is 80%	Certified for the Job Role: "Assessor" (VET and skills, mapped to the Qualification Pack: "MEP/Q2701, v2.0", 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).
(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
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
TLO	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
ТР	Training Provider