



# Model Curriculum

**QP Name: Lab Technician – Radiographic Testing**

**QP Code: CSC/Q0603**

**Version: 2.0**

**NSQF Level: 4**

**Model Curriculum Version: 1.0**

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## Training Parameters

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

<b>Model Curriculum Creation Date</b>	NA
<b>Model Curriculum Valid Up to Date</b>	NA
<b>Model Curriculum Version</b>	1.0
<b>Minimum Duration of the Course</b>	420 Hours
<b>Maximum Duration of the Course</b>	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 carrying out radiographic testing on various materials.

### 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
<b>Bridge Module</b>	<b>04:00</b>	<b>00:00</b>	<b>0:00</b>	<b>00:00</b>	<b>04:00</b>
Module 1: Introduction to the role of a Lab Technician – Metal Testing	04:00	0:00	0:00	00:00	04:00
<b>CSC/N1335 Follow the health and safety practices at work</b> <b>NOS Version- 2.0</b> <b>NSQF Level- 3</b>	<b>20:00</b>	<b>60:00</b>	<b>0:00</b>	<b>00:00</b>	<b>80:00</b>
Module 2: Health and safety practices	20:00	60:00	0:00	00:00	80:00
<b>CSC/N1336 Coordinate with co-workers to achieve work efficiency</b> <b>NOS Version-2.0</b> <b>NSQF Level- 3</b>	<b>20:00</b>	<b>60:00</b>	<b>0:00</b>	<b>00:00</b>	<b>80:00</b>
Module 3: Process of coordinating with co-workers to achieve work efficiency	20:00	60:00	0:00	00:00	80:00
<b>CSC/N0603 Carry out radiographic testing on various materials</b> <b>NOS Version- 2.0</b> <b>NSQF Level- 4</b>	<b>76:00</b>	<b>180:00</b>	<b>0:00</b>	<b>00:00</b>	<b>256:00</b>

Module 4: Process of carrying out radiographic testing on various materials	76:00	180:00	0:00	00:00	256:00
<b>Total Duration</b>	<b>120:00</b>	<b>300:00</b>	<b>0:00</b>	<b>00:00</b>	<b>420:00</b>

# Module Details

## Module 1: Introduction to the role of a Lab Technician – Radiographic Testing

### Bridge Module

#### Terminal Outcomes:

- Discuss the job role of a Lab Technician – Radiographic Testing.

Duration: 04:00	Duration: 0:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>• Describe the size and scope of the capital good industry and its sub-sectors.</li> <li>• Discuss the role and responsibilities of a Lab Technician – Radiographic Testing.</li> <li>• Identify various employment opportunities for a Lab Technician – Radiographic Testing.</li> </ul>	
<b>Classroom Aids</b>	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
<b>Tools, Equipment and Other Requirements</b>	
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.

<b>Duration: 20:00</b>	<b>Duration: 60:00</b>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>• 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.</li> <li>• Explain the importance and process of checking the work conditions, assessing the potential health and safety risks, and take appropriate measures to mitigate them.</li> <li>• Explain the importance and process of selecting and using the appropriate PPE relevant to the task and work conditions.</li> <li>• Explain the recommended techniques to be followed while lifting and moving heavy objects to avoid injury.</li> <li>• Explain the importance of following the manufacturer’s instructions and workplace safety guidelines while working on heavy machinery, tools and equipment.</li> <li>• Explain the importance and process of identifying existing and potential hazards at work.</li> <li>• Describe the process of assessing the potential risks and injuries associated with the various hazards.</li> <li>• Explain how to prevent or minimise different types of hazards.</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrate the use of appropriate Personal Protective Equipment (PPE) relevant to the task and work conditions.</li> <li>• Demonstrate how to handle hazardous materials safely.</li> <li>• Demonstrate the process of testing the firefighting and various safety equipment to ensure they are in usable condition.</li> <li>• Demonstrate the process of recycling and disposing different types of waste appropriately.</li> <li>• Demonstrate how to use the appropriate type of fire extinguisher to extinguish different types of fires safely.</li> <li>• Demonstrate how to administer appropriate first aid to the injured personnel.</li> <li>• Demonstrate the process of performing Cardiopulmonary Resuscitation (CPR) on a potential victim of cardiac arrest.</li> <li>• Demonstrate the process of carrying out appropriate documentation following a health and safety incident at work, including all the required information.</li> </ul>



- 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

<p>to be carried out following a health and safety incident at work, and the relevant information to be included.</p> <ul style="list-style-type: none"> <li>• Explain the importance and process of reviewing the health and safety conditions at work regularly or following an incident.</li> <li>• Explain the importance and process of implementing appropriate changes to improve the health and safety conditions at work.</li> </ul>	
<p><b>Classroom Aids</b></p>	
<p>Computer, Projection Equipment, PowerPoint Presentation and Software, Facilitator’s Guide, Participant’s Handbook.</p>	
<p><b>Tools, Equipment and Other Requirements</b></p>	
<p>Personal Protective Equipment, Cleaning Equipment and Materials, Sanitizer, Soap, Mask</p>	

## 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
<ul style="list-style-type: none"> <li>• Explain the importance and process of effective communication in the workplace.</li> <li>• Explain the barriers to effective communication and how to overcome them.</li> <li>• Explain the importance of teamwork in an organisation’s and individual’s success.</li> <li>• Explain the importance of active listening in the work environment.</li> <li>• State the appropriate techniques to be followed for active listening.</li> <li>• Explain the importance of tone and pitch ineffective communication.</li> <li>• Explain the importance of avoiding casual expletives and unpleasant terms while communicating professional circles.</li> <li>• Explain the importance of maintaining discipline and ethical behaviour at work.</li> <li>• <b>State</b> the common reasons for interpersonal conflict and how to resolve them.</li> <li>• Explain the importance of developing effective working relationships for professional success.</li> <li>• Describe the process of expressing and addressing grievances appropriately and effectively.</li> <li>• Explain the importance and process of planning daily tasks to ensure their timely completion and efficient use of</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrate the process of preparing the relevant documents and reports as per the supervisor’s instructions, providing appropriate information clearly and systematically.</li> <li>• Demonstrate how to mentor and assist subordinates in the execution of their work responsibilities.</li> <li>• Demonstrate the process of using various resources efficiently to ensure maximum utilisation and minimum wastage.</li> <li>• Demonstrate how to communicate clearly and politely to ensure effective communication with co-workers.</li> <li>• Demonstrate appropriate verbal and non-verbal communication that is respectful of genders and disability.</li> </ul>

<p>time.</p> <ul style="list-style-type: none"> <li>• Explain the importance of adhering to the limits of authority at work.</li> <li>• Explain the importance of following the applicable quality standards and timescales at work.</li> <li>• Explain the importance of coordinating with co-workers to achieve the work objectives efficiently.</li> <li>• Explain the relevant documentation requirements.</li> <li>• Explain the importance of providing appropriate information clearly and systematically in work documents.</li> <li>• State the escalation matrix to be followed to deal with out of authority tasks and concerns.</li> <li>• Explain the importance and process of mentoring and assisting subordinates in the execution of their work responsibilities.</li> <li>• Explain how to identify possible disruptions to work prevent them.</li> <li>• Explain how to use various resources efficiently to ensure maximum utilisation and minimum wastage.</li> <li>• Explain the recommended practices to be followed at work to avoid and resolve conflicts at work.</li> <li>• Explain the importance and process of efficient and timely dissemination of information to the authorised personnel.</li> <li>• Explain the procedure to report inappropriate behaviour e.g., harassment.</li> </ul>	
<b>Classroom Aids:</b>	
Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop	
<b>Tools, Equipment and Other Requirements</b>	
NA	

## Module 4: Process of carrying out radiographic testing on various materials

### Mapped to CSC/N0603 v2.0

#### Terminal Outcomes:

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

<b>Duration: 76:00</b>	<b>Duration: 180:00</b>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>• Explain the importance of recording the relevant data during the various stages of testing.</li> <li>• Explain the concepts and benefits of Industry 4.0 and Industrial Internet of Things (IIoT).</li> <li>• State the terminology associated with radiographic testing procedures.</li> <li>• List the relevant tools, equipment and resources used while conducting radiographic tests, such as films, machine consumables, test materials, etc.</li> <li>• State the relevant regulations and codes of practice to be followed when using radiographic testing equipment.</li> <li>• State the relevant safety precautions to be taken while conducting radiographic tests on engineering products and materials.</li> <li>• Describe the process of checking the Controlled Test Zone complies with the applicable regulatory requirements.</li> <li>• Explain how to deal with various hazards associated with radiographic testing activities, such as electrical contact, moving mechanical parts, radiation, toxic chemicals, etc.</li> <li>• Explain various safe working practices to be followed in industrial radiography, as prescribed by Atomic Energy Regulatory Board (AERB).</li> <li>• Describe the process of conducting</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrate the process of setting up radiographic films, intensifying screens Image Quality Indicators (IQIs) and identification markers in the test zone appropriately, providing the correct source location, Source Focal Distance (SFD), beam orientation and exposure.</li> <li>• Demonstrate the process of preparing the testing tools and equipment for use, and carrying out their routine maintenance before use.</li> <li>• Demonstrate how to conduct various radiographic tests, following the defined radiographic testing procedures.</li> <li>• Show how to operate the relevant radiographic tools and equipment as per the manufacturers' instructions.</li> <li>• Demonstrate the use of the appropriate imaging techniques to display the final image, such as Film Radiography, Real-Time Radiography (RTR), Computed Tomography (CT), Digital Radiography (DR), Computed Radiography (CR), etc.</li> <li>• Show how to record the test results manually and electronically following the organisational procedures.</li> <li>• Show how to review the results and carry out further tests if necessary.</li> <li>• Demonstrate how to analyse the testing data, draw appropriate conclusions and prepare the relevant reports.</li> </ul>

<p>radiographic testing, i.e. the use of gamma and x-ray radiation as a penetrating agent; shadow effect; projection and capture of the image on photographic type film, etc.</p> <ul style="list-style-type: none"> <li>• List the sources of radiation used in radiographic testing activities, such as x-ray tubes and radioactive isotopes.</li> <li>• Describe the process of image formation, including rectilinear propagation.</li> <li>• Explain the preparation requirements of the X-ray tube generator.</li> <li>• Explain how to set up the tube or radiation source, including the equipment controls, testing parameters, focal spot size, safety devices, and the use of exposure charts.</li> <li>• Explain the importance of checking the condition of all electrical cables and connections of the relevant equipment.</li> <li>• Describe the process of handling and storing gamma-ray source containers safely.</li> <li>• Explain the importance and process of transporting the radioactive materials safely.</li> <li>• List different types of discontinuities/ flaws detected through radiography and their effect on the material.</li> <li>• Explain the types of X-ray generators and radioisotopes and their effect on radiographic sensitivity tools, equipment, techniques and system verification checks.</li> <li>• Explain the specialized applications of radiography.</li> <li>• Explain the principles of image formation, film and chemical properties and processing techniques.</li> <li>• Explain various types of films and screens, their properties and their</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrate the process of carrying out minor repair and maintenance of the testing tools and equipment.</li> <li>• Demonstrate the use of various industry 4.0 manufacturing technologies.</li> <li>• Demonstrate the process of optimising the usage of electricity and other resources in various tasks and processes.</li> </ul>
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effects on image quality.

- State the relevant parameters against which the quality of the developed image is checked, such as processing faults, contrast, sensitivity, density, etc.
- Explain how to maintain and store radiographic testing equipment.
- Explain how to use the safety features of radioisotope cameras and X-ray equipment.
- Explain how to prepare materials or structures for the radiographic testing activities, including the identification of the test area and the use of lead markers.
- List various material/ product areas on which radiographic tests are conducted, such as welded joints, castings; forged, rolled, extruded products/materials; cold-formed products, heat-treated components, etc.
- List various types of information included in a radiographic test report, such as product identification; test areas covered by identified radiographs; test area geometries and thickness; radiographic parameters; testing conditions; type of Image Quality Indication (IQI); film type; processing conditions; etc.
- Explain different types of radiographic films, such as emulsion, and intensifying screens
- Describe the process of developing, fixing, washing and drying films
- Explain the effect of processing faults, characteristic curves, light exposure and temperature on the film
- Explain how to control the conditions during the development film
- Explain the response of defects to penetrative radiation, and the resulting images on the film.



<ul style="list-style-type: none"> <li>• Describe the process of setting up/maintaining the storage facilities for unexposed, exposed and developed films.</li> <li>• State the appropriate action to be taken in case accidents involving radioactive sources take place.</li> <li>• List various problems associated with different stages of the radiographic testing, and how to prevent/ resolve them, such as sample collection, inspection and testing activities and the interpretation of test results.</li> <li>• Explain the benefits and methods of resource optimisation.</li> </ul>	
<p><b>Classroom Aids</b></p>	
<p>Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop</p>	
<p><b>Tools, Equipment and Other Requirements</b></p>	
<p>X-Ray Tube (Generator) With Equipment Control, Gamma Ray Source Container, Photographic Type Film, Equipment for Film Development, Fixing, Washing and Drying, Personal Protective Equipment: Safety Helmet, Safety Footwear, Respiratory Protective Equipment, Arm and Hand Protection, Eye and Face Protection, Protective Clothing and Overall, Ear Protection, Safety Belt and Harness</p>	

# Annexure

## Trainer Requirements

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

Trainer Certification	
Domain Certification	Platform Certification
Certified for Job Role: “ <b>Lab Technician – Radiographic Testing</b> ” mapped to QP: “CSC/Q0603, 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	Lab Technician – Radiographic Testing	0		Practical skills and knowledge required in the relevant field

Assessor Certification	
Domain Certification	Platform Certification
Certified for Job Role: “ <b>Lab Technician – Radiographic Testing</b> ” mapped to QP: “CSC/Q0603, 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 & semi-skilled 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
<b>Declarative knowledge</b>	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.
<b>Key Learning</b>	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).
<b>OJT (M)</b>	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on-site
<b>OJT (R)</b>	On-the-job training (Recommended); trainees are recommended the specified hours of training on-site
<b>Procedural Knowledge</b>	Procedural knowledge addresses how to do something, or how to perform a
<b>Training Outcome</b>	Training outcome is a statement of what a learner will know, understand and be able to do <b>upon the completion of the training.</b>
<b>Terminal Outcome</b>	The terminal outcome is a statement of what a learner will know, understand and be able to do <b>upon the completion of a module.</b> A set of terminal outcomes help to achieve the training outcome.

## Acronyms and Abbreviations

Term	Description
<b>NOS</b>	National Skills Qualification Committee
<b>NSQF</b>	National Skills Qualification Framework
<b>OJT</b>	On-the-Job Training
<b>OMR</b>	Optical Mark Recognition
<b>PC</b>	Performance Criteria
<b>PwD</b>	Persons with Disabilities
<b>QP</b>	Qualification Pack
<b>SDMS</b>	Skill Development & Management System
<b>SIP</b>	Skill India Portal
<b>SSC</b>	Sector Skill Council
<b>TC</b>	Trainer Certificate
<b>ToA</b>	Training of Assessors
<b>ToT</b>	Training of Trainers
<b>TP</b>	Training Provider