कौशल विकास और
उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP
सत्यमेव जयते



Model Curriculum

Micro Credential Name: Sheet Metal Roofing and Cladding Installation

Micro Credential Code: TIOCES/MCr-0002

Version: 1.0

NSQF Level: 4

Model Curriculum Version: 1.0

Integrated Council for Entrepreneurship and Skilling (ICES)
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Training Parameters

Sector	Construction		
Sub-Sector	Real Estate and Infrastructure Construction		
Occupation	Roofing and Cladding Installation		
Country	India		
NSQF Level	4		
Aligned to NCO/ISCO/ISIC Code	NCO-2015/2161.9900		
Minimum Educational Qualification and Experience	**S. No.**	**Academic/Skill Qualification (with Specialization - if applicable)**	**Required Experience (with Specialization - if applicable)**
	1.	12th Grade Pass	
	2.	11th Grade Pass	1-year of Relevant Industry Experience
	3.	10th Grade Pass	2-years of Relevant Industry Experience
	4.	10th + ITI (Welder / Fitter Trade)	
Pre-Requisite License or Training	Not Applicable		
Minimum Job Entry Age	As per Govt. Norms		
Last Reviewed On	06-12-2025		
Next Review Date	NA		
NSQC Approval Date	NA		
MCr Version	1.0		
Model Curriculum Creation Date	06-12-2025		
Model Curriculum Valid Up to Date	NA		
Model Curriculum Version	1.0		
Minimum Duration of the Course	30 Hours		
Maximum Duration of the Course	30 Hours		

Program Overview

This section summarises 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:

- Identify and select appropriate metal roofing and cladding systems for building types.
- Demonstrate safe handling, lifting and storage practices for sheets and tools.
- Measure, inspect and prepare roof/wall surfaces for installation.
- Install roofing sheets with correct alignment, overlaps, sealing and drainage slope.
- Install wall cladding panels with uniform spacing, weatherproofing and finishing.
- Use hand and power tools following industrial safety requirements.
- Perform inspection, troubleshooting and essential repair activities on installed systems.
- Complete documentation, compliance checklists and maintenance records.

Modules:

The table lists the modules and their duration corresponding to the Standalone NOS.

NOS and Module Details	Theory Duration (in Hours)	Practical Duration (in Hours)	On-the-Job Training Duration (Mandatory) (in Hours)	On-the-Job Training Duration (Recommended) (in Hours)	Total Duration (in Hours)
TIOCES/MCr-0002: Installation of Roofing and Cladding Systems Using Sheet Metal NOS Version: 1.0 NSQF Level: 4	**10:00**	**20:00**	**00:00**	**00:00**	**30:00**
Module 1: Fundamentals of Roofing Profiles and Components	01:00	03:00	00:00	00:00	04:00
Module 2: Facade and Wall Sheeting Systems – Concepts and Materials	02:00	03:00	00:00	00:00	05:00
Module 3: Tools, Power Equipment and Site Safety Standards	01:00	02:00	00:00	00:00	03:00
Module 4: Field Survey, Alignment and Surface Readiness	01:00	03:00	00:00	00:00	04:00
Module 5: Roofing Sheet Fixing, Overlaps, Sealing and Drainage	02:00	04:00	00:00	00:00	06:00
Module 6: Vertical/Horizontal Cladding – Fixing, Jointing and Finishing	02:00	04:00	00:00	00:00	06:00
Module 7: Performance Inspection, Troubleshooting and Corrective Repairs	01:00	01:00	00:00	00:00	02:00
Total Duration	**10:00**	**20:00**	**00:00**	**00:00**	**30:00**

Module Details

Module 1: Fundamentals of Roofing Profiles and Components

Mapped to TIOCES/MCr-0002, v1.0

Terminal Outcomes:

- Describe functions, uses and advantages of metal roofing systems.
- Identify metal roofing profiles, accessories and their applications.
- Explain roofing system terminologies and structural components.
- Select appropriate roofing sheets based on site conditions.
- Follow safe sheet handling and storage practices.

Duration: 01:00	**Duration: 03:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the purpose and advantages of metal sheet roofing applications. • Differentiate between corrugated, trapezoidal, standing seam and sandwich panel profiles. • Define key roofing terminologies including pitch, ridge, valley, soffit and gutter. • Classify roofing sheets based on thickness, coating grade and material composition. • Identify common roofing accessories including ridge caps, gutters and flashing. • Describe environmental and structural factors influencing sheet selection. • Discuss storage and handling precautions to prevent sheet deformation and corrosion. • Interpret datasheets for sheet coating specifications and thermal properties.	• Identify roofing sheet profiles from physical samples with 100% accuracy. • Select compatible accessories for a given sheet profile based on application. • Inspect sheet coating and surface finish for scratches, rust or coating failures. • Demonstrate safe lifting, staging and handling practices for long sheets. • Compare different profile types and justify their applications for given site scenarios. • Group roofing components logically for material staging prior to installation. • Arrange sheets in the correct orientation based on slope directions in a mock setup. • Record profile properties (thickness, grade, dimensions) in a roofing inventory template.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Sample roofing sheets, profile charts, ridge caps, gutters, fasteners, storage racks, gloves, safety shoes.	

Module 2: Facade and Wall Sheeting Systems – Concepts and Materials

Mapped to TIOCES/MCr-0002, v1.0

Terminal Outcomes:

- Explain cladding and façade installation requirements.
- Identify cladding profiles, insulation layers and brackets.
- Describe jointing and weatherproofing considerations.
- Select fastening systems for different substrates.
- Interpret basic cladding layout drawings

Duration: 02:00	**Duration: 03:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the functions of cladding and facade systems in building envelopes. • List types of metal cladding including cassette, perforated, composite and insulated panels. • Illustrate vertical and horizontal cladding orientation with annotated diagrams. • State fastening principles for metal cladding based on substrate material. • Summarize the concept of weatherproofing and insulation in façade systems. • Evaluate impact of panel colour, texture and finish on elevation aesthetics. • Discuss risks associated with poor facade alignment and joint sealing. • Interpret cladding layout drawings and fastening plans.	• Identify cladding panels and fastening accessories (brackets, screws, anchors). • Demonstrate safe handling and unpacking methods for façade panels. • Measure wall surface and mark cladding reference lines using plumb line and chalk. • Select fastening systems based on RCC, steel or brick substrate. • Verify panel orientation and spacing using levelling tools. • Arrange façade panels in deployment sequence to minimize handling damage. • Sketch an elevation view of a façade identifying panel distribution. • Inspect samples for coating thickness and factory film protection.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Cladding panels, brackets, anchors, plumb bob, spirit level, insulation boards, safety gear.	

Module 3: Tools, Power Equipment and Site Safety Standards

Mapped to TIOCES/MCr-0002, v1.0

Terminal Outcomes:

- Identify hand and power tools used in installation.
- Demonstrate safe operation of cutting and fastening tools.
- Apply working at height precautions.
- Prepare safety checklist before starting work.
- Monitor PPE compliance during installation.

Duration: 01:00	**Duration: 02:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• List hand and power tools used for cutting, fastening and bending sheet metal. • Describe operating procedures for power drills, cutting machines and riveters. • Explain height-work safety and fall-arrest system protocols. • Distinguish between safe and unsafe ladder/scaffolding practices. • Identify sheet-metal handling hazards and PPE mitigation requirements. • Develop a job-site safety checklist aligned with roofing/cladding activities. • Explain electrical safety precautions for powered equipment. • Discuss consequences of non-compliance with safety regulations	• Demonstrate proper wearing and adjustment of PPE. • Operate drilling and fastening tools maintaining torque and depth control. • Cut roofing sheets safely using the appropriate blade and cutting angle. • Climb a ladder with tool belt while maintaining 3-point contact. • Inspect scaffolding for platform clearance and guardrail safety. • Prepare a site-specific safety risk register for roofing/cladding work. • Load and unload sheets and tools using safe material handling techniques. • Respond to a simulated emergency following standard safety protocol.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Cutting machine, power drill, measuring tape, PPE, safety harness, ladder, scaffolding, safety nets.	

Module 4: Field Survey, Alignment and Surface Readiness

Mapped to TIOCES/MCr-0002, v1.0

Terminal Outcomes:

- Conduct dimensional measurement of roof/wall area.
- Mark layout lines using correct referencing.
- Identify fixing points and overlap requirements.
- Inspect structural supports and purlins.
- Prepare surface for installation.

Duration: 01:00	**Duration: 03:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Interpret basic roofing/cladding layout drawings and symbols. • Explain the importance of alignment, spacing and fixing-point accuracy. • Describe surface preparation and frame inspection procedures. • Calculate roof/wall area for sheet estimation using standard formulas. • State tolerances for fixing point spacing, overlaps and alignments. • Outline sequence of pre-installation surface inspection. • Discuss implications of incorrect slope and faulty layout marking. • Explain the concept of expansion gaps for metal sheets.	• Measure roof/wall dimensions accurately using tape and scale. • Mark layout and reference lines using chalk line and spirit level. • Locate and mark fixing points as per specifications. • Inspect frame and support for levelness, rust and fastening gaps. • Verify correct slope for drainage using levelling tools. • Prepare surface by cleaning dust, rust and loose components. • Stage and organize materials based on sheet installation sequence. • Record layout readings and marking points in a technical log sheet.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Measuring tape, chalk line, marker, plumb bob, spirit level, drill, line dori.	

Module 5: Roofing Sheet Fixing, Overlaps, Sealing and Drainage

Mapped to TIOCES/MCr-0002, v1.0

Terminal Outcomes:

- Fix roofing sheets with correct overlaps and alignments.
- Apply sealants and washers ensuring leakproof joints.
- Install gutters, ridges and flashings.
- Maintain slope consistency for drainage.
- Handle sheets safely during high-roof installation.

Duration: 02:00	**Duration: 04:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the sheet-fixing sequence for long-span and industrial roofs. • Define standards for side lap, end lap and screw pitch spacing. • Describe sealing procedures using washers, flashing and silicone sealant. • Recognize common causes of leakage and corrosion during improper installation. • Discuss drainage behaviour and slope planning for gable/hipped roofs. • Explain precautions while cutting or drilling sheets on the roof. • Describe ridge cap, gutter, downpipe and flashing functions.	• Fix roofing sheets on mock frame maintaining uniform side and end laps. • Drill and fasten screws/washers with controlled torque and spacing. • Apply sealant and install flashing to achieve leak-proof joints. • Install ridge cap and gutter ensuring alignment and slope compatibility. • Trim sheet edges safely using cutting tools. • Check and adjust slope using levelling tools. • Conduct post-installation water test to detect leakage. • Document installation readings and component checklist.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Power drill, screw gun, roofing sheets, sealant gun, washers, rivets, flashing, gutter accessories.	

Module 6: Vertical/Horizontal Cladding – Fixing, Jointing and Finishing

Mapped to TIOCES/MCr-0002, v1.0

Terminal Outcomes:

- Execute alignment-controlled cladding systems.
- Install corner trims and edge flashings.
- Seal joints according to weatherproofing norms.
- Maintain uniform façade finish.
- Conduct quality check after installation.

Duration: 02:00	**Duration: 04:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain cladding orientation requirements and fixing sequences. • Define joint sealing standards and gap tolerance. • Describe finishing procedures for trims, corners and edges. • List material compatibility considerations for anchors and screws. • State aesthetic parameters for elevation alignment. • Discuss weather-resistance and wind-load considerations. • Explain methods to prevent scratching and surface damage during installation.	• Fix wall cladding sheets/panels on frames maintaining plumb and spacing. • Seal vertical and horizontal joints using prescribed sealing compounds. • Install corner trims and finishing flashings. • Fasten panels using appropriate anchoring systems. • Check fastening torque and mechanical stability. • Align façade layout using spirit level and plumbline. • Protect panel surfaces using tapes/films during installation. • Perform final elevation inspection to verify uniform aesthetic finish.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Cladding panels, screws, anchor bolts, spirit level, masking tape, riveter, finishing trims.	

Module 7: Performance Inspection, Troubleshooting and Corrective Repairs

Mapped to TIOCES/MCr-0002, v1.0

Terminal Outcomes:

- Inspect roofing and wall panels for defects.
- Identify causes of leakage and corrosion.
- Rectify loose fasteners and misaligned joints.
- Replace damaged sheets safely.
- Prepare maintenance schedules and job reports.

Duration: 01:00	**Duration: 01:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain typical roofing/cladding failures including leakage, rust and loosening. • Describe preventive maintenance practices and inspection intervals. • Outline repair methods for damaged sheets, loose fasteners and joint failure. • Discuss safety hazards during repair and high-roof maintenance work. • State documentation requirements for inspection and repair reports. • Define repainting and anti-corrosion touch-up procedures. • Explain criteria for replacement vs. repair of panels.	• Inspect installed roofing and cladding to detect defects and safety risks. • Tighten and replace defective or loose fasteners safely. • Re-seal joints and leakage points using proper sealing techniques. • Replace damaged sheets in a mock installation panel. • Apply anti-rust coating at cut edges and corroded areas. • Clean surface and drain elements as per maintenance requirements. • Prepare preventive maintenance checklist and inspection report. • Document and photograph completed corrective actions for recordkeeping.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Hand tools, sealants, anti-rust paint, scraper, repair kit, safety gear, checklist forms.	

Annexures

Trainer's Requirements

Minimum Educational Qualification	Specialization	Relevant Industry Experience		Preferable Training Experience	
		Years	Specialization	Years	Specialization
Post Graduation	Civil Engineering	2	Site Engineer / Supervisor / Manager	3	Sheet Metal Roofing & Cladding Installation
OR					
Graduation	Civil Engineering	3	Site Engineer / Supervisor	4	Sheet Metal Roofing & Cladding Installation
OR					
Diploma	Civil Engineering	4	Site Engineer / Supervisor	5	Sheet Metal Roofing & Cladding Installation
OR					
ITI	Fitter / Welder	6	Foreman / Skilled Worker	7	Sheet Metal Roofing & Cladding Installation

Trainer Certification	
Domain Certification	**Platform Certification**
Recommended that the Trainer is certified for the Micro-Credential: *"Sheet Metal Roofing and Cladding Installation"*, mapped to the Micro-Credential: "TIOCES/MCr-0002, v1.0". The minimum accepted score is 80%.	Recommended that the Trainer is certified for the Job Role: *"Trainer (VET and Skills)"*, mapped to the Qualification Pack: "MEP/Q2601, v3.0". The minimum accepted score is 80%.

Assessor's Requirements

Minimum Educational Qualification	Specialization	Relevant Industry Experience		Preferable Training / Assessment Experience	
		Years	Specialization	Years	Specialization
Post Graduation	Civil Engineering	4	Site Engineer / Supervisor / Manager	1	Sheet Metal Roofing & Cladding Installation
OR					
Graduation	Civil Engineering	5	Site Engineer / Supervisor	1	Sheet Metal Roofing & Cladding Installation
OR					
Diploma	Civil Engineering	6	Site Engineer / Supervisor	2	Sheet Metal Roofing & Cladding Installation
OR					
ITI	Fitter / Welder	7	Foreman / Skilled Worker	3	Sheet Metal Roofing & Cladding Installation

Assessor Certification	
Domain Certification	**Platform Certification**
Recommended that the Assessor is certified for the Micro-Credential: *"Sheet Metal Roofing and Cladding Installation"*, mapped to the Micro-Credential: "TIOCES/MCr-0002, v1.0". The minimum accepted score is 80%.	Recommended that the Assessor is certified for the Job Role: *"Assessor (VET and Skills)"*, mapped to the Qualification Pack: "MEP/Q2701, v3.0". The minimum accepted score is 80%.

Assessment Strategy

This section includes the processes involved in identifying, gathering and interpreting information to evaluate the Candidate on the required competencies of the program.

1. **Assessment System Overview:**

   Assessment is done through ICES affiliated Assessment Agencies. Assessors are trained and certified by ICES after Training of Assessor (ToA) program. Assessments are conducted to gauge and assess the trainee's skill and knowledge competency in the specified areas.

   The assessment will have both theory, practical and viva components as per ratio specified in the Micro Credential **Sheet Metal Roofing and Cladding Installation**.

   During the practical task, trainees are assessed on their workmanship, quality of finished product and time management. They will be graded for all their assessments based on the approved assessment strategy which is signed off by ICES. The Assessor submits an assessment plan to ICES prior to assessments.

   The assessment plan contains the following information:

   - What will be assessed, i.e. the competency based on each NOS based on theory, practical and viva questions
   - How assessment will occur i.e. methods of assessment
   - When the assessment will occur
   - Duration of assessment
   - Where the assessment will take place i.e. context of the assessment (workplace/simulation)
   - The criteria for decision making i.e. those aspects that will guide judgments
   - Where appropriate, any supplementary criteria are used to make a judgment on the level of performance.

   ICES will be monitoring thoroughly the complete Assessment process.

2. **Testing Environment:**

   - Training partner shares the batch start date and end date, number of trainees and the job role.
   - Assessment will be fixed for a day after the end date of training. It could be next day or later. Assessment will be conducted at the training venue/test center only.
   - The knowledge/theory assessments are conducted with proper seating arrangements with enough space between the candidates to prevent mal practicing.
   - Question set for Theory and Practical will be distributed to each candidate by the Assessor.
     - Theory testing will include MCQ type questions, pictorial questions etc. which will test the trainee on his theoretical knowledge of the subject.
     - Practical assessments will be conducted in the approved test centers. The training provider will ensure adequate tools and materials are available to conduct the practical test.

- Viva Testing will be conducted during or post to the practical assessment by the assessor concerned. This Viva Assessment is applicable to understand the outcomes from OJT attended by the candidate concerned, However this Micro-credential is not assigned with Viva marks

- One (1) Assessor is eligible to conduct assessments of a batch of maximum 30 candidates.
- The assessment must comprise of two components, namely:
  - Knowledge assessment (Theory assessment)
  - Skill assessment (Practical / Hands-on Skill assessment)

3. Mode of assessment

- Demonstration/Practical Performance /Skill Assessment
- Synoptic multiple-choice question test for Theory Assessment

4. Performance/skill assessment:

- The performance/skill assessment will be conducted through demonstration/practical
- For the practical test trainees are assessed through a given task, which they have to complete correctly for them to be marked as passed.
- The assessment is conducted in a simulated working environment. Due to this fact, the assessors must note that the naturally occurring evidence of competence is unavailable or infrequent. Simulation must be undertaken in a Realistic Working Environment which provides an environment that replicates the key characteristics of the workplace in which the skill to be assessed is normally employed.

5. Knowledge Assessment:

- The knowledge assessments are conducted through Theory (written) Test and Viva Test
- Synoptic test is used for this. It is an MCQ (Multiple Choice Question) test which is prepared externally and externally marked, meaning by agency having no link with training partners.
- The Viva test will be conducted by the assessor in the oral mode considering the communication and domain understanding of skills of trainees.
- The assessment strategy, weightage and duration of assessment for **Sheet Metal Roofing and Cladding Installation** is summarized below

Assessment Type	Formative or Summative	Strategies	Weightage	Duration (hours)
Knowledge	Summative	MCQ	30	1 hour
Skill	Summative	Structured practical Task	70	6 hours

6. Assessment Quality Assurance levels/Framework

- ICES has developed assessment criteria framework for each Qualification pack as per National Occupational Standards. The criteria framework includes weightages/marks for each criterion under knowledge and skill. The criteria ensure quality assurance as they ensure valid, consistent and fair assessments at

all locations. Issued to the affiliated Assessment body. The Assessment Body develops questions based on ICES's approved assessment criteria.

- The training partner will intimate the time of arrival of the assessor and time of leaving the venue. Random spot checks/audit may conducted by ICES to monitor assessment.
- Continuous Monitoring through virtual and In-person mode are conducted to ensure the assessment is conducted as per stipulated process
- Process and Technical audit of assessment batches by quality team are conducted to avoid errors in assessment process
- A well -defined comprehensive framework of NON-COMPLIANCE MATRIX is defined and implemented to identify the non-compliance made by assessor and AA and punitive actions are taken correspondingly.
- The capacity building sessions are conducted regularly for assessors and assessment agencies to update them about best practices in assessment

7. **Types of evidence or evidence-gathering protocol:**
   - Evidence in the form of answer sheets in case of knowledge assessments (Theory only) is collected.
   - For Practical and Viva assessments videos and photographs are prepared as evidence. These are submitted by the assessor to the assessment agency. ICES does random checks of the same with the participant/ trainee's ID and ascertains authenticity and validity of assessments.
   - Post Assessment, the evidence are uploaded by Assessor to assessment agency and further assessment agency to ICES as per stipulated TAT
   - Evidence are broadly photographic and video graphics in nature (Geo-Tagged)
   - Results along with evidence to be submitted to ICES by the concerning Assessment Agency in the prescribed format and on Digital Format and Physical Format (As required)
   - Results to be uploaded on SIDH and other relevant portals for collective data management.
8. **Method of verification or validation:**
   - The process and technical audit of assessment batches are done by Awarding Body
   - Attendance of each candidate is verified and it is ensured that only those candidates are assessed by assessors who are meeting the stipulated minimum percentage of attendance
   - The result of each candidate is verified; it is verified that that result on SIP is matched with respect to summary sheet submitted by AAs
   - Under detailed technical audit for sample batches, the knowledge and skill assessment results for each candidate are checked in technical aspect.
   - All the evidence of batches are preserved on server of Awarding Body digital platform
9. **On the Job:**
   - OJT is Not Applicable for Skill training in this Micro-Credential.

References

Glossary

Term	Description
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.
Knowledge and Understanding (KU)	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/ Generic Skills (GS)	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.

Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.

Acronyms and Abbreviations

Acronym	Description
NOS	National Occupational Standard(s)
NSQF	National Skills Qualification Framework
QP	Qualification Pack
TVET	Technical and Vocational Education and Training
MSDE	Ministry of Skill Development and Entrepreneurship
NCVET	National Council for Vocational Education and Training
NSDC	National Skill Development Corporation
ICES	Integrated Council for Entrepreneurship and Skilling (erstwhile Integrated Council for Entrepreneurship and Skilling)
AB	Awarding Body
AA	Assessment Agency
TP	Training Partner
TC	Training Centre
ITI	Industrial Training Institute
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NEP	New Education Policy
Q-File	Qualification File
MC	Model Curriculum
PC	Performance Criteria
KU	Knowledge and Understanding
GS	Generic Skills
PMKVY	Pradhan Mantri Kaushal Vikas Yojana
DDUGKY	Deen Dayal Upadhyaya Grameen Kaushalya Yojana
STT	Short Term Training
RPL	Recognition of Prior Learning
NAPS	National Apprenticeship Promotion Scheme
NQR	National Qualification Register
OJT	On the Job Training
NSQC	National Skill Qualification Committee
IS	Indian Standard