

QUALIFICATION FILE - Commercial Vehicle Driver - LMO

Short Term Training (STT) Long Term Training (LTT) Apprenticeship

Upskilling Dual/Flexi Qualification For ToT For ToA

General Multi-skill (MS) Cross Sectoral (CS) Future Skills

NCrF/NSQF Level: 4

Submitted By:

Logistics Sector Skill Council

No. 480 A, 7th floor Khivraj Complex 2, Anna Salai, Nandanam, Chennai – 600 035

Submitting Body Contact Details:

Name: Ms. Reena Murray

Position in the Organization: Head - Standards & Quality Assurance

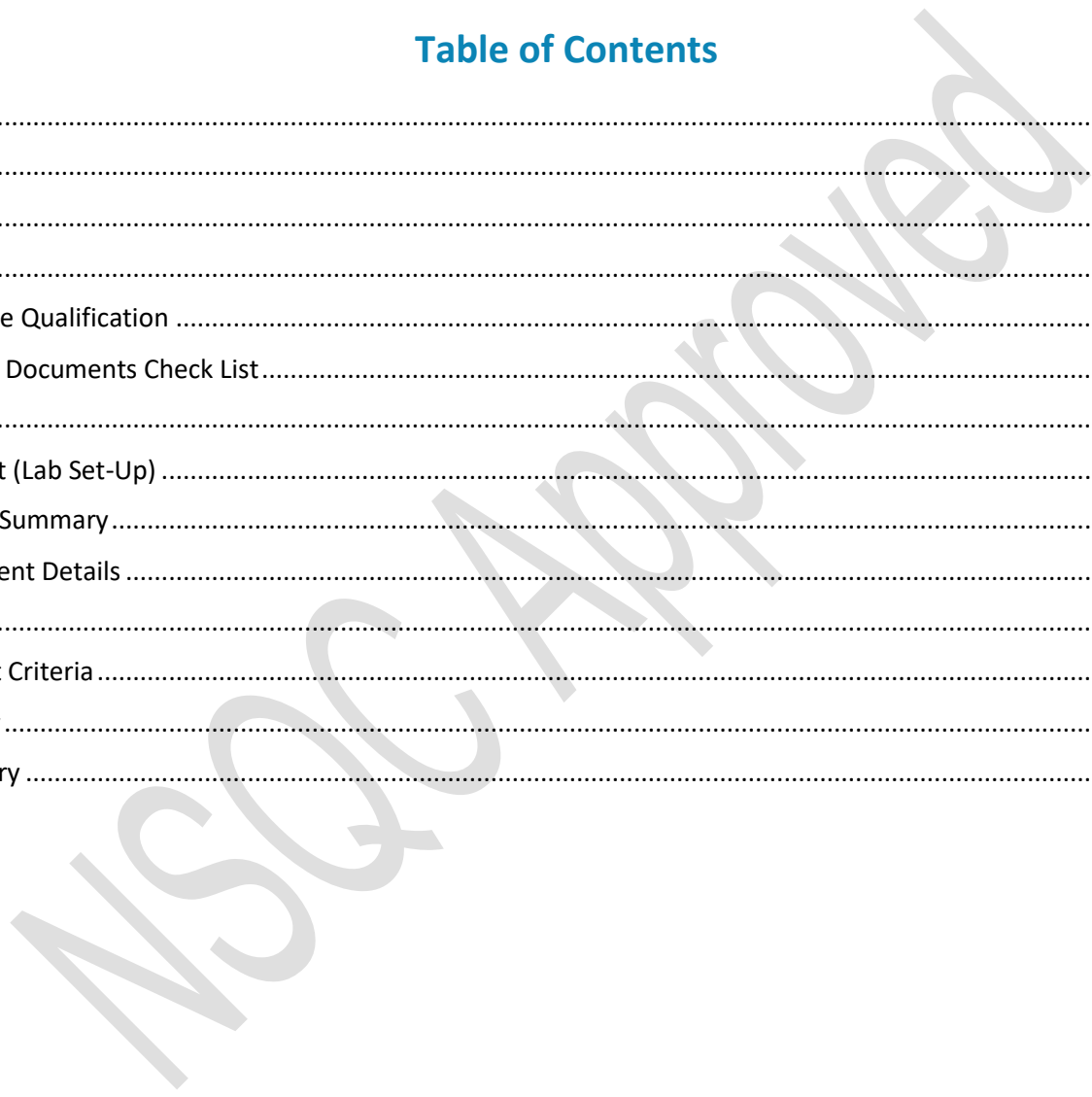
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Section 1: Basic Details

1.	Qualification Name	Commercial Vehicle Driver - LMO	
2.	Sector/s	Logistics	
3.	Type of Qualification: <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of the previous qualification: QG-04-TW-00407-2023-V1-LSC & V1.0	Qualification Name of the previous version: Commercial Vehicle Driver - LMO
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>	Commercial Vehicle Driver - LMO	
5.	National Qualification Register (NQR) Code & Version <i>(Will be issued after NSQC approval)</i>	QG-04-TLW-04956-2026-V1-LSSC	6. NCrF/NSQF Level: 4
7.	Award (Certificate/Diploma/ Advanced Diploma/ Any Other) <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	Certificate	
8.	Brief Description of the Qualification	The Commercial Vehicle Driver – Liquid Medical Oxygen (LMO) is responsible for safely transporting LMO to hospitals, medical and storage facilities while ensuring strict compliance with PESO, MoRTH, and CPCB regulations. This role requires handling hazardous materials and operating cryogenic tankers, along with the ability to perform routine maintenance and manage breakdowns during long-distance travel. The driver must also meet performance targets such as fuel efficiency and on-time delivery, maintaining a high level of safety, responsibility, and reliability throughout.	
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience:	

		<table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Relevant Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8th Class pass</td> <td>3 years of experience as HMV driver (as per HMV regulations of Central motor vehicle rule 1989 - Should have the ability to read and write in English + at least 1 official language)</td> </tr> <tr> <td>2</td> <td>Previous relevant Qualification of NSQF Level 3</td> <td>3 years of experience as HMV driver</td> </tr> </tbody> </table> <p>b. Age: 20 years</p>	S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)	1	8th Class pass	3 years of experience as HMV driver (as per HMV regulations of Central motor vehicle rule 1989 - Should have the ability to read and write in English + at least 1 official language)	2	Previous relevant Qualification of NSQF Level 3	3 years of experience as HMV driver												
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2	Previous relevant Qualification of NSQF Level 3	3 years of experience as HMV driver																					
10.	Credits Assigned to this Qualification (as per National Credit Framework (NCrF))	16	11. Common Cost Norm Category (I/II/III) (wherever applicable): I																				
12.	Any Licensing Requirements for Undertaking Training on This Qualification (wherever applicable)	HMV License																					
13.	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	<input checked="" type="checkbox"/> Offline Only <input type="checkbox"/> Online Only <input type="checkbox"/> Blended																					
		<table border="1"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>120</td> <td>310</td> <td>50</td> <td></td> <td>480</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	120	310	50		480	Online								
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Classroom (offline)	120	310	50		480																		
Online																							
		(Refer Blended Learning Annexure for details)																					
14.	Aligned to NCO/ISCO Code/s (if code is not available, then mention the same)	NCO-2015/8331.0301																					
15.	Progression Path After Attaining the Qualification (Please show Professional and Academic progression) (wherever applicable)	Land Transportation/Cargo Fleet Supervisor																					

16.	Other Indian Languages in which the Qualification & Model Curriculum are being Submitted	Hindi	
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:	
18.	Is the Job Role Amenable to Persons with Disability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If “Yes”, specify applicable type of Disability:</i>	
19.	How participation of women will be encouraged?	The Job Role is gender neutral and can be performed by women	
20.	Are Greening/ Environment Sustainability Aspects Covered (<i>Specify the NOS/Module which covers it, wherever applicable</i>)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
22.	Name and Contact Details of Submitting / Awarding Body SPOC (<i>In case of CS or MS, provide details of both Lead AB & Supporting ABs</i>)	Name: Ms. Reena Murray Email: reena@lsc-india.com Contact No.: 044 4851 4607 Website: www.lsc-india.com	
23.	Final Approval Date by NSQC: 06-02-2026	24. Validity Duration: 3 years	25. Next Review Date: 06-02-2029

Section 2: Module Summary

NOS of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

Th.-Theory Pr.-Practical OJT-On the Job Man.-Mandatory Training Rec.-Recommended Proj.-Project

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1	Introduction to Commercial Vehicle Driver - LMO	Bridge module	Non-core	4	1	10	20	-	-	30	0	0	-	0	0	0
2	Carry out maintenance and ensure roadworthiness of LMO vehicle	LSC/N1014 & V2.0	Core	4	3	20	60	10	-	90	30	60	-	10	100	20
3	Operate and Drive the LMO Tanker safely and efficiently	LSC/N1015 & V2.0	Core	4	3	20	60	10	-	90	30	60	-	10	100	20
4	Handle Liquid Medical Oxygen	LSC/N1013 & V2.0	Core	4	3	20	60	10	-	90	30	60	-	10	100	20
5	Handle Emergencies during LMO Transportation	LSC/N1017 & V1.0	Core	4	3	20	60	10	-	90	30	60	-	10	100	20
6	Health, safety and security procedures for drivers	LSC/N1304 & V1.0	Core	4	2	15	35	10	-	60	30	60	-	10	100	10
7	Employability Skills (30 Hours)	DGT/VSQ/N0101 & V1.0	Non-Core	4	1	15	15	-	-	30	30	0	-	0	50	10
	Duration (in Hours) / Total Marks				16	120	310	50	-	480	170	330	-	50	550	100

Elective NOS: NA

Optional NOS: NA

Assessment - Minimum Qualifying Percentage

Please specify any one of the following:

Minimum Pass Percentage – Aggregate at qualification level: 70 % (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage – NOS/Module-wise: 50 % (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Any degree + 2 years of relevant industrial experience specifically in Land Transportation services Recommended that the Trainer is certified for the Job Role: "Trainer (VET and Skills)", mapped to the Qualification Pack: "MEP/Q2601, V3.0". Minimum accepted score is 80%
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Any degree + minimum 5 years of experience in the logistics industry, specifically in Land Transportation services. Certified for Job Role: "Commercial Vehicle Driver - LMO" mapped to QP: "LSC/Q1005, V3.0". Minimum accepted score is 80%
3.	Tools and Equipment Required for the Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	NA

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Any degree + 2 years of relevant industrial experience in Land Transportation services Recommended that the Assessor is certified for the Job Role: "Assessor (VET and Skills)", mapped to the Qualification Pack: "MEP/Q2701, V3.0". Minimum accepted score is 80%
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2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines) wherever applicable	Any degree + 2 years of relevant industrial experience in Land Transportation services Certified for Job Role: "Commercial Vehicle Driver - LMO" mapped to QP: "LSC/Q1005, V3.0". Minimum accepted score is 80%
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines) wherever applicable	Any degree + 5 years of relevant industrial experience + 1 year assessment experience Recommended that the Assessor is certified for the Job Role: "Lead Assessor", mapped to the Qualification Pack: "MEP/Q2701, V3.0". Minimum accepted score is 80%
4.	Assessment Mode (Specify the assessment mode)	Online and Offline
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> No (details to be provided in Annexure-if it is different for Assessment)

Section 5: Evidence of Need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): No
3.	Government /Industry initiatives/ requirement (Yes/No): No
4.	Number of Industry validation provided: 21
5.	Estimated nos. of persons to be trained and employed: As per Annexure: Training and Employment Details
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: Yes

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrF/NSQF level justification based on NCrF level/NSQF descriptors <i>(Mandatory)</i>	Yes
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	Yes
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	<p>Assessment of the Candidates on completion of the Training is a very important activity that is monitored by Logistics Sector Skill Council (LSC). It ensures sustained quality of training delivery. It also indicates to the LSC the need for any changes in training content. LSC has developed policies related to affiliation of assessment agencies and assessment process to enhance the quality of assessments and they are outlined in succeeding paragraphs.</p> <p>1) Guidelines on affiliation of assessment agencies:</p> <p>As per NSDC guidelines on affiliation of assessment agency, we are adhering the following:</p> <ul style="list-style-type: none"> a) Application evaluation b) Affiliation certificate c) SME profile validation d) Question bank validation e) TOA process f) Link through SIP <p>2) Assessment process:</p> <p>1) The assessment process would begin by developing the correct qualitative questions for theory/practical and viva. Questions papers are submitted by Assessment Bodies (AB) to LSC for approval.</p>

		<p>2) AB submits Assessor’s details, their experience and credentials to LSC for approval.</p> <p>3) Third step in the process would be allocation of batches by LSC to AB for which LSC has shifted from a manual allocation system to automated allocation on the basis of grading system on the below mentioned parameters.</p> <ul style="list-style-type: none"> i. Quality of the assessors submitted by the assessment agency. ii. Certification of the assessor by LSC basis the training of assessor’s program conducted by LSC. iii. Adherence to schedule of assessments by the assessment agencies. iv. Integrity of the assessor in conducting quality assessments. v. Quality of the question papers submitted by the assessment agencies to LSC. vi. Submission of quality documents of the assessments conducted as insisted by LSC. vii. Time of submission of the required assessment related documents to LSC for approval viii. Time of submission of results in SDMS system post approval by LSC <p>Basis the above grading metrics the system would allocate the batches to the assessment agencies, which has brought transparency in the system of who are allocated how many batches and it is made very clear to the ecosystem that performance matters a lot. This has in turn also helped to improve the quality of the trainings as the check list of documents advised by LSC to be submitted by the assessment agencies speaks on the quality of trainings happening.</p>
4.	<p>Annexure: Assessment Strategy (<i>Mandatory</i>)</p>	<p>1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC</p> <p>2. The assessment for the theory part will be based on knowledge bank of questions validated</p>

		<p>and approved by the SSC.</p> <p>3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below)</p> <p>4. Individual assessment agencies will create unique evaluations for practical skills for every student at each examination/training centre based on these criteria</p> <p>5. To pass the Qualification Pack, every trainee should score a minimum of 70% for NSQF level 4 & above job roles and 50% for NSQF level 1 to 3 job roles.</p> <p>6. In case of unsuccessful completion, the trainee may seek re-assessment on the Qualification Pack.</p>
5.	Annexure: Blended Learning (<i>Mandatory, in case selected Mode of delivery is Blended Learning</i>)	No
6.	Annexure: Multiple Entry-Exit Details (<i>Mandatory, in case qualification has multiple Entry-Exit</i>)	No
7.	Annexure: Acronym and Glossary (<i>Optional</i>)	Yes
8.	Supporting Document: Model Curriculum (<i>Mandatory - Public view</i>)	Yes
9.	Supporting Document: Career Progression (<i>Mandatory - Public view</i>)	Yes
10.	Supporting Document: Occupational Map (<i>Mandatory</i>)	Yes
11.	Supporting Document: Assessment SOP (<i>Mandatory</i>)	https://drive.google.com/file/d/1G3IXYAbONyUNjTb6nHRY6fuK3HQkEsLu/view?usp=sharing
12.	Any other document you wish to submit:	NA

Annexure: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	<ul style="list-style-type: none"> • The individual in the job should possess: • Possesses specialized operational knowledge of procedures employed in both routine and non-routine contexts. • Has complete knowledge of concept of time required for delivery; and Quality for a range of issues. 	The individual possesses specialized knowledge of LMO handling, other hazardous materials, vehicle checks, and safety procedures. S/he operates in a predictable but high-risk environment requiring compliance with strict safety protocols. The LMO driver demonstrates both routine and non-routine operations. The individual performs routine tasks such as vehicle inspection, driving commercial vehicles to safely transport LMO tankers, routine maintenance activities, managing breakdowns during long-distance travel. The driver is responsible for the timely and safe delivery of Liquid Medical Oxygen (LMO). The driver not only understands the importance of timely execution but also ensures the quality of service and safety. Hence the job role qualifies to be pegged at Level 4.	4
Professional and Technical Skills/ Expertise/ Professional Knowledge	<ul style="list-style-type: none"> • Possesses specialized professional and technical skills; displays clarity of professional knowledge and technical skills • Apply the required knowledge for successfully implementing or applying techniques/ processes in a specific field/ job role 	The job holder knows and understands different rules and regulations of the Government and regulatory bodies, the workings/ operations of commercial vehicle, their controls and logics, operations and basic trouble shooting concepts. S/he also understands the safety measures, optimal working conditions, dealing with	4

	<ul style="list-style-type: none"> Identify the relevant tools; and has advanced knowledge of materials 	<p>emergencies. The job holder possesses technical knowledge of commercial vehicles, defensive driving techniques, safety standards, government regulations and precautionary measures to be taken while driving liquid medical oxygen (LMO) tankers. S/ he applies troubleshooting skills and operational judgment in dynamic road and environmental conditions.</p>	
<p>Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill</p>	<ul style="list-style-type: none"> Good Communication skills, both oral and written. Has good skills for self-employment and entrepreneurship skills/ entrepreneurial Mind-set Good understanding of social political and work environment 	<p>The job holder demonstrates skill to efficiently and safely drive commercial vehicle to transport LMO. S/he should drive in a safe manner considering various signage and layouts. S/he also demonstrates skills to assess the road worthiness of vehicle and compliance related issues. S/ he demonstrates the ability to make decisions on when not to use the vehicle due to technical and/or other reasons. The job holder communicates clearly with transporters, supervisors and other teams to ensure smooth operations and coordination while driving and reporting. S/he uses safe driving principles to assess risks and make prompt, situation-based decisions.</p>	<p>4</p>
<p>Broad Learning Outcomes/Core Skill</p>	<ul style="list-style-type: none"> Able to identify the problems and a wider possible range of solutions with pros and cons in production/ services 	<p>S/he also needs to follow the organization markings and principles regarding safety protocols during operations. S/he applies basic numeracy and reasoning to estimate distances,</p>	<p>4</p>

	<ul style="list-style-type: none"> • Complex tasks are performed by himself without much instructions and supervision. • Apply related occupational safety & general hygiene norms and environmental aspects. • Has information of associated Risks with related job roles • Uses discretion and judgement over a range of known responses to familiar problems. 	delivery schedules, fuel usage, calculating speed and time, etc. The driver must be aware of the risks and hazards in transporting hazardous materials and LMO. The driver must apply problem-solving skills during mechanical faults or route diversions. S/he must apply related occupational safety, general hygiene norms and environmental aspects, while driving LMO tankers. The individual must handle various types of emergencies during LMO Transportation.	
Responsibility	<ul style="list-style-type: none"> • Can perform all non standard procedures and non-routine tasks with confidence. • Takes complete responsibility for delivery and quality of own work and output as also the subordinates. • Shares responsibility for the group tasks. 	The driver is responsible and accountable for the safe and timely delivery of LMO tankers. S/he is responsible for vehicle upkeep, safety checks, and adherence to SOPs. S/he must guide helpers or assistants during loading/unloading or in emergencies.	4

Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1.	Computers with MS office	Standard Make	15
2.	SOP manuals	Standard Make	5
3.	Simulators	Standard Make	2

4.	Cut sectioned models	Standard Make	2
5.	Heavy Motor Vehicle (HMV) for practical	Standard Make	1
6.	Class D Fire extinguisher	Standard Make	2
7.	Models of LMO tanker for practical	Standard Make	1
8.	Safety equipment	Standard Make	5
9.	PPE	Standard Make	5
10.	LLMS (Learning version)	LLMS software logins to be subscribed from LSC. Regarding equipment guidance, please reach out to Logistics Sector Skill Council.	15 logins per center
11.	TMS (Learning version)	TMS software logins to be subscribed from LSC. Regarding equipment guidance, please reach out to Logistics Sector Skill Council.	15 logins per center
12.	Spill Containment Kit, First Aid Kit	Standard Make	2
13.	Communication Radio	Standard Make	1
14.	Vehicle Maintenance Tools	Standard Make	5
15.	Pressure Gauge Demo Unit	Standard Make	1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Training Kit (Trainer Guide, Presentations)
2. Charts, Models, Video presentation, Flip Chart
3. Whiteboard/Smart Board, Marker, Board eraser

Annexure: Industry Validations Summary

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1.	ABT Logistics	Karthika Subramanian	HR-Manager	Chennai			
2.	Advance Cooling Towers Pvt Ltd	Anil Badhe	Director	Gujarat			
3.	Carry Fresh Logistics Pvt Ltd	Prakash T	Managing Director	Chennai			
4.	DB Skills	Deepti Singh	Director-Program Management	Mumbai			
5.	Federal Transport Pvt Ltd	Meena Nandhagopal	Accounting Manager	Chennai			
6.	Grossnet Express Pvt Ltd	Josimus Raja	Director	Chennai			
7.	Indelox Services Pvt Ltd	Swetha N	HR Manager	Bengaluru			
8.	JBS Jeena Logistics	Samir Shah	Director	Gujarat			
9.	JFK Transporters Pvt Ltd	Mr.Jehaan Kotwal	CEO	Pune			
10.	Linde	RC Divakar	AGM, Transport Safety, Training and Compliance	Kolkata			

11.	Sri Ramadas Motor transport limited	PJP Prasad	Manager-HR & Admin	Hyderabad			
12.	MB Foundation for Skill Development and Livelihood	Santhi Gopal	Trustee	Vellore			
13.	MGX-247 Logistics Pvt Ltd	N Magesh	Founder and Business Head	Chennai			
14.	Navata Road Transport	M. Thaviti Naidu	Asst Manager	Chennai			
15.	Om logistics Supply Chain Pvt Ltd	Chirag Sehgal	BDM-HRD	New Delhi			
16.	PDP International Pvt Ltd	Avishkar Srivastava	Chief Innovative Officer	Kolkata			
17.	Reema Transport Pvt Ltd	Reema Kothari	Director	Mumbai			
18.	Sattva Hitech and Conware Pvt Ltd	S Padmanabhan	Director	Chennai			
19.	Shivani Carriers Pvt Ltd	Vandana Laddha	Director	Indore			
20.	Shreepa Logistics Pvt Ltd	M Ruthwik	Manager	Hyderabad			
21.	Tripath Logistics Pvt Ltd	S. Balasubramanian	Director	Bengaluru			

Annexure: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2025-26	52282	0	0	0	0	0
2026-27	57675	0	0	0	0	0
2027-28	63443	0	0	0	0	0

Data to be provided year-wise for next 3 years.

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
2.0	2022-23	52331	52331	0	0	0	0	0	0	0	0	0	0
2.0	2023-24	41265	41265	0	0	0	0	0	0	0	0	0	0
2.0	2024-25	27986	27986	0	0	0	0	0	0	0	0	0	0

Applicable for revised qualifications only, data to be provided for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

1. Non PMKVY

Content availability for previous versions of qualifications:

Participant Handbook Facilitator Guide Digital Content Qualification Handbook Any Other:

Languages in which Content is available: Hindi, English

Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	<input type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge		
2	<input type="checkbox"/> Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	<input type="checkbox"/> Showing Practical Demonstrations to the learners		
4	<input type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	<input type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice		
6	<input type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	<input type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
	PC1. Wear the appropriate PPE and clothing designed for handling LMO while checking the vehicle	1	2	-	0.5

Carry out maintenance and ensure roadworthiness of LMO vehicle	PC2. Ensure that there are no flammable items, greasy rags or diesel in the vehicle	1	2	-	-
	PC3. Ensure the used tools are cleaned for oxygen service, and the toolkit is stowed in a place away from the cargo	2	2	-	0.5
	PC4. Ensure the vehicle is fitted with GPS tracking and cooperate with monitoring requirements.	1	2	-	0.5
	PC5. Conduct regular inspections of essential vehicle systems (e.g., brakes, tires, fluid levels, electrical systems) to ensure they are in optimal working condition before operating the vehicle.	1	3	-	0.5
	PC6. Follow the manufacturer’s maintenance schedule for servicing key components like the engine, transmission, brakes, and exhaust system. Ensure all service activities are conducted in a timely manner to prevent wear and potential failure.	1	2	-	0.5
	PC7. Check and replace parts that have a limited lifespan, such as air filters, fuel filters, wiper blades, and spark plugs, ensuring they meet operational standards.	1	2	-	0.5
	PC8. Inspect tire pressure, tread depth, and overall tire condition. Perform tire rotations or replacements as necessary and ensure the correct tire specifications are used for optimal vehicle performance.	1	2	-	0.5
	PC9. Regularly check and maintain all critical fluid levels (e.g., engine oil, brake fluid, coolant, power steering fluid) to prevent engine overheating, brake failure, or other system malfunctions.	1	2	-	0.5
	PC10. Inspect the braking system to ensure it is functioning properly, checking brake pads, discs, and fluid levels. Replace worn components as part of routine maintenance.	1	2	-	0.5
	PC11. Test and maintain the vehicle’s electrical systems, including battery charge, alternator performance, and wiring, to prevent electrical failures during operation.	1	2	-	0.5
	PC12. Conduct a thorough visual inspection of the vehicle for signs of wear and tear, such as leaks, cracks, or damaged parts, and address issues before they become critical.	1	2	-	0.5

	PC13. Regularly check that the vehicle’s maintenance tools (e.g., jack, wrench, tire repair kit) are in working condition and stored properly. Clean and maintain tools as needed to ensure they are ready for use.	1	2	-	-
	PC14. Identify and report any signs of potential mechanical issues, such as unusual sounds, vibrations, or system failures, during preventive maintenance checks.	1	2	-	-
	PC15. Keep accurate records of all preventive maintenance activities performed on the vehicle, including dates, parts replaced, and any issues identified, for reference and future inspections.	1	2	-	0.5
	PC16. <ul style="list-style-type: none"> •Check that the vehicle meets basic legal and compliance requirements: •The organization guidelines, e.g. rule books •CMVR guidelines from the Ministry of Road Transport & Highway and other guidelines issued by Road Transport Authorities like RTOs •PESO, and medical oxygen-specific transport guidelines •Any other safety, security and environmental guidelines •WHO & MoHFW Oxygen Transport Guidelines (esp. post-COVID) 	1	3	-	0.5
	PC17. Ensure that the valid documents are available in the vehicle (License, fitness certification, insurance, copy of registration certificate and road tax paid)	1	2	-	0.5
	PC18. Check vehicle service records indicative of any history of technical defects	1	2	-	-
	PC19. Check the safety devices in the vehicle, such as wheel chocks, breakdown signs, spark arrestors, traffic cone and fire extinguisher	1	2	-	0.5

	PC20. ensure that DCP fire extinguishers are available in the vehicle and have valid 3rd party certification of condition	1	2	-	-
	PC21. Check the cooling system, steering, electrical, fluid levels, braking system and other general conditions of the vehicle	1	2	-	0.5
	PC22. Ensure that there are no leakages in the cooling system	1	2	-	-
	PC23. Perform the free play test to check the steering	1	2	-	-
	PC24. Examine the fluid levels – oil levels, engine oil, gearbox hydraulic oil, brakes fluid, washer liquid and fuel	1	2	-	0.5
	PC25. Check the braking systems to ensure it is working properly	1	2	-	2
	PC26. Perform the start-stop test to check the electrical system of the vehicle.	1	2	-	0.5
	PC27. Always stay on the planned route as approved by the transporter	1	2	-	-
	PC28. Report actual or possible defects to the senior driver, owner, or service supervisor in detail so that they can diagnose the problem	1	2	-	0.5
	PC29. In consultation with the owner, conclude about the roadworthiness of the vehicle and, if found unfit, decide to use another vehicle.	1	2	-	0.5
	NOS Total	30	60	-	10
Operate and Drive the LMO Tanker safely and efficiently	PC1. Follow the standard driving practices while driving LMO tankers	1	2	-	0.5
	PC2. Follow the working/driving hours assigned; in case of emergency, comply with instructions regarding extended hours.	1	2	-	-
	PC3. Follow prescribed work and rest schedules to manage fatigue and ensure safe driving	1	1	-	-
	PC4. Operate the vehicle with a co-driver when assigned during emergency situations.	0.5	2	-	-
	PC5. Follow the safety precautions while loading liquid oxygen to the tankers	1	2	-	0.5
	PC6. Maintain a speed limit of 10 km/hr within the factory premises before loading oxygen	0.5	1	-	0.5

PC7. Check the availability of cones, signs, PPE, emergency kit, etc.	0.5	2	-	0.5
PC8. Check the decanting and venting procedures before driving	1	2	-	0.5
PC9. Follow the safety precautions while parking LMO tankers	1	2	-	0.5
PC10. Park the vehicle only on open ground with sufficient air circulation; do not park under high- tension cables (11kV).	0.5	1	-	-
PC11. Check the pressure gauge once every 4 hours	-	3	-	0.5
PC12. Follow the safety precautions while unloading the liquid oxygen and exiting the delivery site	1	2	-	0.5
PC13. Maintain a speed limit of 5 Km/hr while driving at the delivery site	1	2	-	0.5
PC14. Follow the safety precautions during the empty return of tankers	1	2	-	0.5
PC15. Ensure that TREM (Transport Emergency) Card and Safety Data Sheet (SDS) are carried at all times and adhered to.	1	1	-	-
PC16. Ensure the availability of Emergency Number and Valid Chief Controller of Explosives (CCoE) Peso Certificate	1	2	-	-
PC17. Follow the assigned geo-fenced route without deviation; if the vehicle enters unspecified zones or misses the route, alerts will be raised.	1	1	-	-
PC18. Enter city limits only after 11 PM and exit before 4 AM, or as per the traffic regulations of the respective city.	1	1	-	-
PC19. Follow Eco-Driving Practices and Emission Compliance to Encourage fuel-saving and low- emission	1	2	-	0.5
PC20. Apply various defensive driving techniques while overtaking, parking, stopping, driving in the rain, driving at night, etc., while maneuvering through turns and curves.	1	2	-	0.5
PC21. Practice the mechanism of managing cargo pressure on the road while driving on curvy roads, braking hazards, etc.	-	2	-	-
PC22. Use safe driving principles to assess risks and make prompt, situation-based decisions.	0.5	2	-	0.5

PC23. Follow necessary precautions and road signs to avoid roll over, braking hazards and possible accidents	1	2	-	-
PC24. Always remain alert while driving and handle stress effectively	0.5	2	-	-
PC25. Limit stoppages as per prescribed norms and justify any additional stoppages.	0.5	1	-	-
PC26. Follow state-specific traffic regulations, including lane discipline, and adhere to lawful procedures while changing lanes or turning.	1	2	-	0.5
PC27. Maintain a safe following distance from other vehicles and clearly signal your intentions using appropriate indicators. Respond appropriately to permanent and temporary traffic signals, road signs, markings, and hand signals from traffic personnel, using a safe and systematic driving routine.	2	2	-	0.5
PC28. Use indicators and parking lights when stationary; Choose a safe, legal, and convenient location for stopping the vehicle when required.	1	1	-	0.5
PC29. Secure the vehicle safely on gradients using hand brakes and wheel chocks; check for approaching cyclists, pedestrians, and other vehicles before opening the door	1	2	-	-
PC30. Remain calm and composed in challenging situations such as traffic congestion or accidents. Avoid confrontations or disputes with other road users and members of the public.	2	2	-	0.5
PC31. Give priority and right of way to children, the elderly, and persons with disabilities, ensuring their safety and comfort on the road.	1	2	-	0.5
PC32. Observe movement of pedestrians and stray animals to avoid collision	1	2	-	-
PC33. Comply with relevant rules and best practices when dealing with the general public, and demonstrate awareness and compassion toward stray animals on the road.	1	2	-	0.5
NOS Total	30	60	-	10

Handle Liquid Medical Oxygen	PC1. Wear appropriate clothing and PPE (face and head shield, full sleeves, covered clothing, covered shoes, 100% cotton or wool, cryogenic gloves) while handling liquid oxygen	1	3	-	0.5
	PC2. Ensure that PPE is worn at all times and any clothing coming in contact with liquid oxygen must be removed immediately	1	4	-	0.5
	PC3. Ensure that there is no smoking, cooking or open flames in any area where liquid oxygen is stored or handled	1	3	-	0.5
	PC4. Ensure that no liquid oxygen or oxygen- enriched air comes in contact with flammable or combustible substances of any kind	3	3	-	1
	PC5. Use only oxygen-compatible materials and lubricants	2	4	-	0.5
	PC6. Check that the Cryogenic containers are always in an upright position while being transported, handled or stored	2	3	-	1
	PC7. Ensure that the cryogenic containers are not tipped, slided or rolled on their side while moving	2	4	-	1
	PC8. Use a suitable hand truck or trolley for moving small containers	1	4	-	0.5
	PC9. Avoid mechanical and thermal shock while moving cryogenic oxygen cylinders	1	4	-	0.5
	PC10. Use only transfer lines and equipment designed for use with cryogenic liquids and ensure that they are well insulated	1	4	-	0.5
	PC11. Ensure that the appropriate protocol is followed while loading of oxygen into tank	2	4	-	0.5
	PC12. Inspect that a diffuser is attached to the transfer hose to reduce turbulence & release of gas while filling up from tanker	2	3	-	0.5
	PC13. Review the decantation and venting procedure for the tank	3	3	-	0.5
	PC14. Monitor the pressure gauge as per the prescribed guidelines and always wear a PPE	2	3	-	0.5
	PC15. Follow the appropriate procedure for rupture disk and valve failure	2	3	-	0.5

	PC16. Follow the emergency protocol for leaks, spills, rupture disk and valve failure	2	4	-	0.5
	PC17. Follow all the statutory requirements of the chief controller of Explosives in India, SMPV rules and follow MSDS guidelines at all times during handling and transportation	2	4	-	0.5
	NOS Total	30	60	-	10
Handle Emergencies during LMO Transportation	PC1. Identify early signs of potential emergency situations such as hissing/unusual sounds, gas odour (oxygen leaks), pressure gauge fluctuations, or alerts from vehicle safety systems.	1	2	-	0.5
	PC2. Monitor safety indicators in the vehicle (e.g., temperature, pressure) and react promptly to abnormalities.	1	2	-	0.5
	PC3. Shut off valves only if it is safe for the driver to do so and isolate the LMO container if there's a suspected or visible leak.	1	2	-	0.5
	PC4. Use safety equipment like spill kits or oxygen masks as per protocol.	1	2	-	-
	PC5. Report any malfunction or wear and tear in LMO-specific components (e.g., pressure systems, valves, temperature control) to prevent breakdowns or leakage.	1	2	-	0.5
	PC6. Identify fire risk from LMO vapor in oxygen- enriched environments.	1	2	-	0.5
	PC7. Check whether it is safe to disconnect power sources.	1	2	-	0.5
	PC8. Once confirmed, disconnect all power sources according to standard safety procedures.	1	2	-	-
	PC9. Operate the battery cut-off switch immediately in case of emergency to eliminate any ignition source	1	2	-	-
	PC10. Use appropriate firefighting equipment or sand to control minor fires, ensuring personal safety first.	1	2	-	0.5
	PC11. Avoid use of water or incorrect extinguishing methods for LMO-related fires.	0.5	2	-	0.5
	PC12. Call fire services immediately and provide details about LMO cargo.	1	2	-	-

PC13. Park the vehicle in an isolated location, preferably against the wind, during emergencies to reduce risk of fire or exposure.	1	1	-	-
PC14. Evacuate the area and instruct others to maintain a safe distance (as per HAZMAT safety norms).	1	2	-	0.5
PC15. Administer first aid to self or others in case of minor injuries or health incidents (if trained).	0.5	1	-	-
PC16. Ensure that proper first aid kits for cold burns are available in the vehicle	1	1	-	-
PC17. Implement safety protocols for medical emergencies involving self or others (e.g., symptoms of hypoxia, heatstroke, or panic attacks), and administer first aid where appropriate.	1	2	-	0.5
PC18. Activate emergency brakes and switch off the ignition safely if required; activate vehicle hazard indicators and place safety cones, reflective triangles, or barricades to warn other road users.	1	2	-	0.5
PC19. Inform authorities and follow vehicle breakdown protocols.	0.5	1	-	-
PC20. Coordinate with alternate transport or towing services.	0.5	2	-	-
PC21. Ensure bystanders and the public remain at a safe distance from the breakdown site by using cones, hazard lights, or warning signs	0.5	2	-	0.5
PC22. Turn on hazard lights and place warning triangles or cones to alert other road users.	0.5	2	-	0.5
PC23. Evacuate the area and instruct others to maintain a safe distance (as per HAZMAT safety norms).	1	2	-	-
PC24. Move the vehicle to a safe zone, if possible and safe to do so, to prevent escalation.	1	2	-	0.5
PC25. Secure the cargo area to prevent movement or spillage of LMO tanks during an emergency stop or accident.	0.5	2	-	-
PC26. Inform the control center, nearby emergency response teams, and local authorities (fire, police) immediately in case of	1	2	-	0.5

	a serious incident. Immediately contact the assigned company emergency SPOC				
	PC27. Cooperate fully with responding authorities and emergency personnel.	0.5	2	-	-
	PC28. Maintain continuous communication with the company emergency coordination center throughout the incident to receive guidance and updates.	1	1	-	0.5
	PC29. Carry and maintain an updated contact list of police, fire department, and emergency services for all locations along the route.	1	1	-	-
	PC30. Conduct pre-trip safety and emergency equipment checks to minimize risk of in-transit incidents.	1	1	-	-
	PC31. Participate in regular emergency response drills and simulations conducted by the employer or regulatory bodies.	0.5	1	-	0.5
	PC32. Ensure emergency equipment (first aid kit, fire extinguisher, PPE, etc.) is regularly inspected and in working condition.	1	1	-	0.5
	PC33. Follow all safety and compliance procedures as laid out in LMO transport SOPs.	1	2	-	0.5
	PC34. Ensure proper documentation of the incident, including time, location, nature of emergency, actions taken, persons involved, and reporting details.	0.5	2	-	0.5
	PC35. Refer to and follow instructions provided in TREM (Transport Emergency) Card and Safety Data Sheet (SDS) during emergencies.	1	1	-	-
	NOS Total	30	60	-	10
Health, safety and security procedures for drivers	PC1. Make note of all safety processes in different location (cargo loading area, ramp operation area, etc.) with reference to area of operation.	2	3	-	1
	PC2. Wear all PPE such as goggles, ear plugs, helmet, mask, shoes, etc. as applicable in the cargo movement area.	2	3	-	1
	PC3. Follow standard driving practice to ensure safety of life and material.	1	3	-	-

PC4. Follow organizational protocol to deploy action in case of signs of any emergency situation or accident or breach of safety.	1	3	-	-
PC5. Undertake periodical preventive health check ups and stay physically fit for driving attentively.	2	3	-	-
PC6. Undertake fitness test including mandatory certified eye test once every 6 months.	1	2	-	-
PC7. Take appropriate breaks, have adequate sleep, drink water etc and perform stretch exercises when required.	1	3	-	-
PC8. Follow security procedures like green gate in port, customs area, factory security, etc.	1	3	-	-
PC9. Comply with data safety regulations of the organisation.	2	2	-	1
PC10. Follow standard safety procedures and precautions while handling hazardous / fragile cargo.	2	2	-	1
PC11. Recognise unsafe conditions and safety practices at the loading area and report it to concerned authority.	1	3	-	1
PC12. Inspect the activity area and equipment for appropriate, safe condition.	1	3	-	1
PC13. Always follow road safety and traffic rules.	2	3	-	-
PC14. Never drink alcohol before or during your trip and avoid taking medication without doctor consultation during driving.	1	3	-	-
PC15. Undergo alcohol check-up before every trip and ensure zero alcohol consumption.	1	2	-	-
PC16. Comply with Alcohol Detector Sensor (ADS) readings installed in the vehicle	1	2	-	-
PC17. Check if extinguishers and safety gear are available in the vehicle and in working condition.	1	3	-	-
PC18. Participate in fire drills of the organization.	1	3	-	-
PC19. Ensure that standard material handling procedure are being followed while loading.	2	3	-	1
PC20. Check if all the safety and security related tags, labels and signage are placed in the cargo.	2	3	-	1
PC21. Confirm if loading instrument is certified and operational.	1	3	-	-

	PC22. Implement 5S at workplace.	1	3	-	1
	PC23. Check if cargo has passed security checks and report in case of any violation.	1	2	-	-
	PC24. In case of accident/ collision, check whether everyone involved are fine, and treat for medical injuries as needed and to the level of your training and inform to authorities/ medical team and follow SOP.	2	3	-	1
	NOS Total	30	60	-	10
Employability Skills	Introduction to Employability Skills	1	1	-	-
	PC1. Understand the significance of employability skills in meeting the job requirements	-	-	-	-
	Constitutional values – Citizenship	1	1	-	-
	PC2. Identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
	Becoming a Professional in the 21st Century	1	3	-	-
	PC3. Explain 21st Century Skills such as Self- Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-
	Basic English Skills	2	3	-	-
	PC4. Speak with others using some basic English phrases or sentences	-	-	-	-
	Communication Skills	1	1	-	-
	PC5. Follow good manners while communicating with others	-	-	-	-
	PC6. Work with others in a team	-	-	-	-
	Diversity & Inclusion	1	1	-	-
	PC7. Communicate and behave appropriately with all genders and PwD	-	-	-	-
	PC8. Report any issues related to sexual harassment	-	-	-	-
Financial and Legal Literacy	3	4	-	-	

	PC9. Use various financial products and services safely and securely	-	-	-	-
	PC10. Calculate income, expenses, savings etc.	-	-	-	-
	PC11. Approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
	Essential Digital Skills	4	6	-	-
	PC12. Operate digital devices and use its features and applications securely and safely	-	-	-	-
	PC13. Use internet and social media platforms securely and safely	-	-	-	-
	Entrepreneurship	3	5	-	-
	PC14. Identify and assess opportunities for potential business	-	-	-	-
	PC15. Identify sources for arranging money and associated financial and legal challenges	-	-	-	-
	Customer Service	2	2	-	-
	PC16. Identify different types of customers	-	-	-	-
	PC17. Identify customer needs and address them appropriately	-	-	-	-
	PC18. Follow appropriate hygiene and grooming standards	-	-	-	-
	Getting ready for apprenticeship & Jobs	1	3	-	-
	PC19. Create a basic biodata	-	-	-	-
	PC20. Search for suitable jobs and apply	-	-	-	-
	PC21. Identify and register apprenticeship opportunities as per requirement	-	-	-	-
	NOS Total	20	30	-	-

Annexure: 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:

- SSC will receive batches through SIP or email to schedule assessment.
- Batches will be assigned to the NCVET affiliated assessment agencies for conducting the assessment.
- Assessment agencies send the assessment confirmation and procedure to TP/TC looping SSC.
- Assessment agency deploys the ToA certified Assessor for executing the assessment.
- SSC will monitor the assessment process & records.

2. Testing Environment:

- Check the Assessment location, date and time is same as SIP data.
- Specified equipment must be available to facilitate assessment.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the Subject Matter Experts (SME) are verified by the other SME of LSC.
- Questions are mapped to the specified assessment criteria.
- Assessor must be ToA certified.
- Mock test/Self assessment will be conducted during training through LSC softwares.

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
- 21 points check list must be adhered by both AA and assessor.

5. Method of verification or validation:

- LSC will validate the evidence and results through LSC portal.
- Validation will be candidate wise scrutiny.

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored by AA for certain years.
- Softcopies of evidences will be stored in LSC portal.

On the Job (OJT assessment applicable):

1. The candidate must score 60% to successfully complete the OJT.
2. Tools of Assessment that will be used for assessing whether the candidate is having desired skills and etiquette of dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:
 - Videos of Trainees during OJT
3. Assessment of each Module will ensure that the candidate is able to:
 - Effective engagement with the customers
 - Understand the working of various tools and equipment.

NSQC Approved

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf