



Model Curriculum

QP Name: Land Transportation Executive (Electives –Consolidation and Tracking/ Feasibility Assessment) (Options – EXIM Documentation/Telematics)

QP Code: LSC/Q1002

QP Version: 2.0

NSQF Level: 4

Model Curriculum Version: 2.0

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Training Parameters

Sector	Logistics
Sub-Sector	Land Transportation
Occupation	Transport Operations, Vehicle Operations, Documentation and Reporting
Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	NCO-2015/ 4221/4323 and ISCO-08/4323
Minimum Educational Qualification and Experience	Completed 12th grade OR Completed 2nd year of 3-year diploma (after 10th) and pursuing regular diploma OR Completed 10th grade and pursuing continuous schooling OR Completed 10th Grade + 2 year relevant experience in Land transportation OR Previous relevant Qualification of NSQF Level 3.0 (Land Transportation Associate) + 3 year relevant experience in Land transportation
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18
Last Reviewed On	25-08-2022
Next Review Date	25-08-2025
NSQC Approval Date	25-08-2022
QP Version	2.0
Model Curriculum Creation Date	04-07-2022
Model Curriculum Valid Up to Date	25-08-2025
Model Curriculum Version	2.0
Minimum Duration of the Course	510
Maximum Duration of the Course	690

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 will be able to:

- Analyse transportation data to assess optimal utilisation of assets and identifying reasons for non-performance
- Manage internal team, vendors and clients to provide seamless transportation service
- Prepare inbound and outbound documentation for vehicle and consignment transportation
- Comply to workplace integrity, ethical and regulatory practices.
- Manage workplace for safe and healthy work environment by following compliance to regulatory and safety norms.
- Inspect invoices for correct application of GST.
- Prepare transportation consolidation plan to ensure optimal utilisation of resources
- Track vehicle movement and ensure timely delivery and compliance to regulatory documentation.
- Plan and optimize routes for cost and time efficient consignment pickup and delivery
- Prepare and file export/ import documentation to facilitate customs clearance and goods movement
- Use transportation telematics to drive efficiency and reduce cost in vehicle fleet operations

Compulsory Modules

The table lists the modules, their duration and mode of delivery.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
Bridge Module	20	10			30
Module 1: Introduction to Land Transportation Executive	20	10			30
LSC/N1002 –Transport data processing and analysis NOS Version 1.0 NSQF Level 4	20	30	10		60
Module 2: Transportation data analysis	20	30	10		60
LSC/N1003– Coordinate with internal team and external vendors NOS Version 1.0 NSQF Level 4	20	30	10		60

Module 3: Team and vendor coordination	20	30	10		60
LSC/N0302 – Perform inbound and outbound documentation NOS Version 1.0 NSQF Level 4	20	30	10		60
Module 4: Documentation for land transportation	20	30	10		60
LSC/N9904– Maintain integrity, ethics and regulatory compliance in operations NOS Version 1.0 NSQF Level 4	20	40			60
Module 5: Guidelines on integrity and ethics	20	40			60
LSC/N9905 – Follow health, safety and security procedures NOS Version 1.0 NSQF Level 4	20	40			60
Module 6: Compliance to health, safety and security norms	20	40			60
LSC/N9906 - Verify GST invoices NOS Version 1.0 NSQF Level 4	20	40			60
Module 7: Verify GST application	20	40			60
DGT/VSQ/N0102 Employability skills	30	30			60
Total Duration	170	250	30		450

Elective Modules

The table lists the elective modules, their duration and mode of delivery.

Elective 1: Transport Coordination

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
LSC/N1005 – Transport consolidation and consignment tracking NOS Version 1.0 NSQF Level 4	30	30			60
Module 8: Transport consolidation and consignment tracking	30	30			60
Total Duration	30	30			60

Elective 2: Feasibility Assessment

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
LSC/N1006 – Conduct feasibility assessment and route optimization NOS Version 1.0 NSQF Level 4	30	30			60
Module 9: Route feasibility assessment and optimization	30	30			60
Total Duration	30	30			60

Option Modules

The table lists the option modules, their duration and mode of delivery.

Option 1: EXIM Documentation

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
LSC/N2131 – Prepare documents for Export and Import processing including EDI filing NOS Version 1.0 NSQF Level 4	30	30			60
Module 10: EXIM documentation and filing	30	30			60
Total Duration	30	30			60

Option 2: Telematics

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
LSC/N1138 – Use telematics to drive efficiency NOS Version 1.0 NSQF Level 4	30	30			60
Module 11: Transportation telematics	30	30			60
Total Duration	30	30			60

Module Details

Module 1: Introduction to Land Transportation Executive

Mapped to Bridge Module

Terminal Outcomes:

- Describe the basic structure and function of supply chain
- Detail the various functions of a Land transportation Executive

Duration: 20:00	Duration: 10:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Classify the components of supply chain and logistics sector • Detail the various sub-sectors and the opportunities in them • Explain job roles in Land Transportation • Detail your job role as Land Transportation Executive and its interface with other job roles • Describe the various MHEs and equipment used in Land transportation • Discuss the documentation requirements land transportation 	<ul style="list-style-type: none"> • Identify the various MHEs and equipment's used in land transportation • Perform various operations functions of a land transportation executive
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS(Learning version)	

Module 2: Transportation data analysis

Mapped to LSC/N1002, v1.0

Terminal Outcomes:

- Detail the steps involved in transportation data analysis as per SOP

Duration: 20:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • List necessary information to be collected for analysis • Demonstrate the process of analyzing performance of consignment based on consignment type, geography, vehicle type and client • Compute various parameters such as vehicle utilisation, workforce productivity, route variation, fuel consumption, repair and maintenance etc. • Prepare trend analysis of performance parameters 	<ul style="list-style-type: none"> • Collect necessary information for analysis from ERP, and other records • Analyse delivery performance of consignment based on consignment type, geography, vehicle type and client • Assess handling and transportation damages • Calculate necessary parameters such as vehicle utilization, workforce productivity, route variation, fuel consumption, repair and maintenance etc • Prepare trend analysis of performance parameters • Report the findings to Manager with the necessary support data and reasons for deviation from normal
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS(Learning version), Computer, printer, Enterprise Resource Planning (ERP)/ Transport Management System TMS(Learning version) software, etc..	

Module 3: Team and vendor coordination

Mapped to LSC/N1003, v1.0

Terminal Outcomes:

- Detail the steps to be followed for effective team and vendor coordination

Duration: 20:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe the team coordination requirements to ensure transportation processing • Detail the documentation requirements for payment and consignment processing • Discuss consignment tracking process • Detail vendor coordination requirement during consignment pickup, transit and delivery • Discuss claims processing for damaged/missing goods • Explain client escalation management process • Discuss the list of periodic communications and documentations to be sent to customer 	<ul style="list-style-type: none"> • Perform necessary coordination to ensure smooth transportation processing • Prepare documentation for payment and consignment processing • Track consignment • Perform vendor coordination during consignment pickup, transit and delivery • Perform claims processing for damaged/missing goods • Report issues as per escalation matrix • Assemble the necessary periodic communications and documentations to be send to the customers
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS(Learning version), MS Office, ERP/ TMS(Learning version), stationery, computer, projector, worksheets, SOP, etc.	

Module 4: Documentation for land transportation

Mapped to LSC/N0302, v1.0

Terminal Outcomes:

- Detail the appropriate steps to be followed for preparing land transportation documents

Duration: 20:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Detail the documentation requirement for consignment processing and vehicle movement • Inspect consignment, vehicle, transit/goods insurance documentation, tax permits and other relevant documentation • Inspect consignment loading and unloading based on documentation • Describe documentation for claims/ replacement processing for damaged/ missing goods • Prepare invoice based on consignment movement • Prepare agreement sheet for consignment movement • Discuss documentation approval procedure • Detail the instructions to be provided to vehicle driver on route, transport regulations, formalities etc. • Describe the acknowledgements to be received from driver for goods transportation 	<ul style="list-style-type: none"> • Prepare documents for consignment processing and vehicle movement • Inspect consignment, vehicle, transit/goods insurance documentation, tax permits and other relevant documentation • Inspect consignment loading and unloading based on documentation • Prepare documentation for claims/ replacement processing for damaged/ missing goods • Prepare invoice based on consignment movement • Prepare agreement sheet for consignment movement • Administer documentation approval procedure • Provide instructions to vehicle driver on route, transport regulations, formalities etc. • Describe the acknowledgements to be received from driver for goods transportation
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS(Learning version), Microsoft office and Enterprise Resource Planning (ERP)/ Transport Management System (TMS), (Learning version) SOP, standard forms, stationery, markers, ERP, computer, printers, etc.	

Module 5: Guidelines on integrity and ethics

Mapped to LSC/N9904, v1.0

Terminal Outcomes:

- Explain the concepts of integrity, ethics
- Detail the various regulatory requirements related to logistics industry

Duration: 20:00	Duration: 40:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe the concepts of integrity, ethics • Detail the various regulatory requirements related to logistics industry • Explain data and information security practices • Discuss the various corrupt practices • Discuss regulatory requirements, code of conduct and etiquettes • Detail the procedure for documenting all integrity and ethics violations • Explain escalation matrix for reporting deviation 	<ul style="list-style-type: none"> • Illustrate the importance of integrity and how ethics needs to be followed. • Practice the principles of integrity and ethics • Follow the various regulatory requirements related to logistics industry • Perform data and information security practices • Identify corrupt practices • Comply to regulatory requirements • Practice code of conduct and etiquettes • Demonstrate what are the integrity and ethic violations. • Document all integrity and ethics violations • Report deviation as per the escalation matrix
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS(Learning version), LLMS(Learning version), SOP, Teaching board, computer, projector, video player, stationery, worksheets and TV	

Module 6: Compliance to health, safety and security norms

Mapped to LSC/N9905, v1.0

Terminal Outcomes:

- Describe health, safety, and security procedures
- Demonstrate the inspection procedure to ensure appropriate and safe conditions of activity area and equipment
- Illustrate the standard protocol to be followed during emergency situations, accidents and breach of safety

Duration: 20:00	Duration: 40:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Detail health, safety and security procedures. • Describe the 5S to be followed in industry. • Explain the inspection procedure to ensure appropriate and safe conditions of activity area and equipment • Discuss what are unsafe working conditions • Describe the inspection procedure to check safe handling of hazardous goods • Discuss the standard protocol to be followed during emergency situations, accidents and breach of safety • Document health, safety and security violations • Explain the escalation matrix for reporting deviation 	<ul style="list-style-type: none"> • Demonstrate the health, safety and security procedures to be followed. • Implement 5S at workplace • Inspect the activity area and equipment, for appropriate and safe conditions • Identify unsafe working conditions • Inspect adherence to standard operating procedures (SOP) while handling dangerous and hazardous goods • Implement standard protocol in case of emergency situations, accidents, and breach of safety • Prepare report on health, safety and security violations • Report deviation as per the escalation matrix
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS(Learning version), LLMS(Learning version), PPEs, MHEs like Forklift, Reach stacker, pallet truck, etc., barcode scanner, packaging devices, packing material, markers and stationery, etc.	

Module 7: Verify GST invoices

Mapped to LSC/N9906, v1.0

Terminal Outcomes:

- Demonstrate the process of verifying GST invoices as per SOP

Duration: 20:00	Duration: 40:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Differentiate location of service recipient and place of supply of services in GST application • Determine classification of the transaction to apply the right CGST, IGST, and SGST • Detail the rules and regulation in applying and reversing GST • Discuss the details required for applying GST, such as GSTIN, PAN, email id, HSC code, SAC code, UIN number etc. • Compute the applicable GST based on documentation • Discuss the procedure for inspecting invoice for availability of mandatory information relating to GST application 	<ul style="list-style-type: none"> • Apply the right CGST, IGST and SGST as per transaction type • Apply and reverse GST by following the appropriate rules and regulations • Calculate the correct GST based on documentation • Inspect invoice for availability of mandatory information relating to GST application
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS(Learning version), Laptop, MS office, ERP, stationery, worksheets, computer, projector, GST guidelines etc.	

Module 8: Transport consolidation and consignment tracking

Mapped to LSC/N1005, v1.0

Terminal Outcomes:

- Demonstrate the process of transportation and consignment tracking as per SOP

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain components of truck schedule and dispatch schedule • Discuss the procedure for preparing transport consolidation plan, loading plan • Demonstrate appropriate lashing and cushioning of goods in the truck • Use ERP for recording dispatch, delays, in transit consignment, delivery schedules etc. • Discuss the steps to analyze incident log to plan preventive and corrective measures • Discuss coordination process with regional office/branches and local authorities to manage exigencies 	<ul style="list-style-type: none"> • Identify components of truck schedule and dispatch schedule • Prepare consolidation plan based on nature of goods, volume of goods, FTL/LTL requirements, destination, delivery priority, route taken, truck dimensions and other related parameters • Design loading plan to arrange goods in the demarcated space based on weight bearing capacity of bin/pallet/crate and delivery order • Communicate consolidation plan and loading plan to stakeholders • Inspect compliance of loaded goods to the loading plan • Inspect appropriate lashing and cushioning of goods in the truck • Arrange for replacement of damaged goods during handling • Arrange for quarantine of damaged goods • Record dispatch and delay details in ERP • Record details of in-transit consignment in the ERP to access real time information • Analyse incident log to plan preventive and corrective measures • Coordinate with regional office/branches and local authorities to manage exigencies • Update revised delivery schedule in ERP based on activities taken
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS(Learning version), Scheduling software, Standard Operating Procedures (SOP), scheduling documentation, Microsoft office, Enterprise Resource Planning (ERP), Global Positioning System (GPS), computer, projector, stationery, worksheets etc	

Module 9: Employability Skills

Mapped to DGT/VSQ/N0102, v1.0

Terminal Outcomes:

- Discuss the Employability Skills required for jobs in various industries
- Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen
- Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Discuss the Employability Skills required for jobs in various industries • List different learning and employability related GOI and private portals and their usage • Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen • Discuss importance of relevant 21st century skills. • Describe the benefits of continuous learning. • Explain the importance of active listening for effective communication • Discuss the significance of working collaboratively with others in a team • Discuss the significance of escalating sexual harassment issues as per POSH act. • List the common components of salary and compute income, expenditure, taxes, investments etc. • Discuss the legal rights, laws, and aids • Describe the role of digital technology in today's life • Discuss the significance of displaying responsible online behaviour while browsing, using various social media platforms, e-mails, etc., safely and securely 	<ul style="list-style-type: none"> • Practice different environmentally sustainable practices. • Exhibit 21st century skills like Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life. • Demonstrate to use basic English sentences for everyday conversation in different contexts, in person and over the telephone • Read and interpret text written in basic English • Write a short note/paragraph / letter/e - mail using basic English • Create a career development plan with well-defined short- and long-term goals • Communicate effectively using verbal and nonverbal communication etiquette. • Demonstrate how to behave, communicate, and conduct oneself appropriately with all genders and PwD • Outline the importance of selecting the right financial institution, product, and service • Demonstrate how to carry out offline and online financial transactions, safely and securely

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| <ul style="list-style-type: none"> • Explain the types of entrepreneurship and enterprises • Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan • Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement • Detail the significance of analyzing different types and needs of customers • Explain the significance of identifying customer needs and responding to them in a professional manner. • Discuss the significance of maintaining hygiene and dressing appropriately • Explain the significance of maintaining hygiene and confidence during an interview • List the steps for searching and registering for apprenticeship opportunities | <ul style="list-style-type: none"> • Operate digital devices and use the associated applications and features, safely and securely • Create sample word documents, excel sheets and presentations using basic features • Utilize virtual collaboration tools to work effectively • Devise a sample business plan, for the selected business opportunity • Create a professional Curriculum Vitae (CV) • Use various offline and online job search sources such as employment exchanges, recruitment agencies, and job portals respectively • Perform a mock interview |
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Classroom Aids

Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser, UPS, LCD Projector, Computer Tables & chairs

Tools, Equipment and Other Requirements

TMS(Learning version), LLMS(Learning version), Computer (PC) with latest configurations – and Internet connection with standard operating system and standard word processor and worksheet software (Licensed) (all software should either be latest version or one/two version below), Scanner cum Printer

Module 10: Route feasibility assessment and optimization

Mapped to LSC/N1006, v1.0

Terminal Outcomes:

- Demonstrate the steps to conduct route feasibility analysis as per SOP

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Demonstrate usage of route planning software to ensure cost efficiency • Perform lane analysis to identify best route for Over Dimensional Cargo (ODC) • Generate final route plan, rest stops, refuelling, driver shift change, distance covered and trip assignment • Generate back-up route plans to manage contingencies such as inclement weather, natural calamities etc. • Detail the preparations required for different types of cargo and route plans • Calculate route efficiency by tracking vehicle movement 	<ul style="list-style-type: none"> • Analyse details on point of origin, point of destination, type of goods, pickup date and time, delivery date and time, volume of goods, vehicle capacity, vehicle traffic constraint and experience of transporter • Review the pickup, delivery, load distribution and vehicle route planned using route planning software • Plan optimized routes for multiple depots to ensure cost efficiency • Perform lane analysis to identify best route for Over Dimensional Cargo (ODC) • Prepare final route plan, rest stops, refuelling, driver shift change, distance covered and trip assignment • Prepare back-up route plans to manage contingencies such as inclement weather, natural calamities etc. • Discuss the route plan and associated requirements with customer and Manager for approval • Manage necessary preparations for different types of cargo and route plans • Compute route efficiency by tracking vehicle movement
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS(Learning version), SOP, computer, ERP/ TMS(Learning version), worksheets, Route optimization software, MS Excel and Access, Atlas Map, etc.	

Module 11: EXIM documentation and filing

Mapped to LSC/N2131, v1.0

Terminal Outcomes:

- Detail the steps to be followed for EXIM documentation and filing as per SOP

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Assess the cargo quantity, value, packing, labelling, weight, size etc to prepare the EXIM documentation checklist • Explain the review process of the Know Your Customer (KYC) and Goods and Service Tax (GST) details of the importer/ exporter including copies of invoice, purchase order, Statutory Declaration Form (SDF), packing list, shipping bill/ Airway bill, Bill of lading, as delivery order, certificate of origin, industrial license, insurance document, etc • Describe the customs bond execution process for duty exempted items • Prepare mandatory documentation in Indian Customs EDI System (ICES) for Bill of Lading, Airway Bill, commercial invoice cum packing list, dock receipt, shipping bill, Bill of Entry etc. • Prepare declaration of goods with necessary support documentation • Prepare documentation for pilferage, damage etc. • Detail the customs clearance process using customs brokers • Demonstrate usage of Indian Customs Electronic Commerce/ ICEGATE” web portal for processing documents • Detail the payment processing required for customs clearance • Detail documentation tracking procedure in the portals of customs, shipping lines, Directorate General of Foreign Trade (DGFT), Participative Government Agencies (PGAs) etc. 	<ul style="list-style-type: none"> • Analyse the cargo quantity, value, packing, labelling, weight, size etc to prepare the EXIM documentation checklist • Evaluate the Know Your Customer (KYC) and Goods and Service Tax (GST) details of the importer/ exporter including copies of invoice, purchase order, Statutory Declaration Form (SDF), packing list, shipping bill/ Airway bill, Bill of lading, as delivery order, certificate of origin, industrial license, insurance document, etc for correctness • Perform customs bond execution for duty exempted items • Prepare mandatory documentation in Indian Customs EDI System (ICES) for Bill of Lading, Airway Bill, commercial invoice cum packing list, dock receipt, shipping bill, Bill of Entry etc. • Inspect accuracy of number of packages, quantity, unit rate, total Freight on Board (FOB) / Cost, Insurance and Freight (CIF) value, etc. • Prepare declaration of goods with necessary support documentation • Prepare documentation for pilferage, damage etc. • Perform customs clearance involving customs brokers • Process documentation in “Indian Customs Electronic Commerce/ ICEGATE” web portal • Perform payment processing for customs clearance • Track documents in the portals of customs, shipping lines, Directorate General of Foreign Trade (DGFT), Participative Government Agencies (PGAs) etc.
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS(Learning version), Indian Customs EDI System (ICES), Indian Customs EDI Gateway (ICEGATE), Remote EDI System (RES), SOP, computer, projector, stationery, worksheets, etc.	

Module 12: Transportation telematics

Mapped to LSC/N1138, v1.0

Terminal Outcomes:

- Demonstrate the method of tracking vehicle using TMS(Learning version) and GPS as per SOP

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe vehicle tracking procedure using TMS(Learning version) and GPS equipment • Detail the ideal speed limits, braking pressure, mileage, engine idling period etc. to be maintained for different types of vehicles • Discuss the process of examining vehicle and driver performance against standards for the vehicle/ route • Identify reasons for deviation from norms • Examine reefer vehicle temperature maintenance • Discuss the method of evaluating weather conditions in the route planned for movement • Explain the process of recognising alternate routes in case of exigencies 	<ul style="list-style-type: none"> • Track vehicle using TMS (Learning version)and GPS equipment • Manage speed limits, braking pressure, mileage, engine idling period etc. for different types of vehicles as per standards • Analyse the vehicle and driver performance against standards for the vehicle/ route • Recognize reasons for deviation from norms • Analyse reefer vehicle temperature maintenance • Assess weather conditions in the route planned for movement • Propose alternate routes in case of exigencies
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS(Learning version), Computer, Enterprise Resource Planning (ERP) software, Transport Management System (TM(Learning version)S), GPS equipment, SOP, projector, worksheets, stationery etc.	

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
12 th Pass		2	Land Transportation	1	Land Transportation	

Trainer Certification	
Domain Certification	Platform Certification
Certified for Job Role: “Land Transportation Executive” mapped to QP: “LSC/Q1002, v2.0”. 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, V2.0” with minimum score of 80%

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
12 th Pass	NA	2	Land Transportation	1	Land Transportation	

Assessor Certification	
Domain Certification	Platform Certification
Certified for Job Role: "Land Transportation Executive" mapped to QP: "LSC/Q1002, v2.0". 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, V2.0" with minimum score of 80%

Assessment Strategy

The emphasis is on 'learning-by-doing' and practical demonstration of skills and knowledge based on the performance criteria. Accordingly, assessment criteria for each job role is set and made available in qualification pack.

The assessment papers for both theory and practical would be developed by Subject Matter Experts (SME) hired by Logistics Sector Skill Council or with the LSC accredited Assessment Agency as per the assessment criteria mentioned in the Qualification Pack. The assessments papers would also be checked for the various outcome-based parameters such as quality, time taken, precision, tools & equipment requirement etc.

Each NOS in the Qualification Pack (QP) is assigned a relative weightage for assessment based on the criticality of the NOS. Therein each Element/Performance Criteria in the NOS is assigned marks on relative importance, criticality of function and training infrastructure.

The following tools would be used for final assessment:

1. Practical Assessment: This comprises of a creation of mock environment in the skill lab which is equipped with all equipment required for the qualification pack.

Candidate's soft skills, communication, aptitude, safety consciousness, quality consciousness etc. is ascertained by observation and marked in observation checklist. The outcome is measured against the specified dimensions and standards to gauge the level of their skill achievements.

2. Viva/Structured Interview: This tool is used to assess the conceptual understanding and the behavioral aspects with regard to the job role and the specific task at hand. It also includes questions on safety, quality, environment, and equipment etc.

3. On-Job Training: OJT would be evaluated based on standard logbook capturing departments worked on, key observations of learner, feedback and remarks of supervisor or mentor.

4. Written Test: Question paper consisting of 100 MCQs (Hard:40, Medium:30 and Easy: 30) with questions from each element of each NOS. The written assessment paper is comprised of following types of questions:

- i. True / False Statements
- ii. Multiple Choice Questions
- iii. Matching Type Questions
- iv. Fill in the blanks
- v. Scenario based Questions
- vi. Identification Questions

QA Regarding Assessors:

Assessors are selected as per the "eligibility criteria" laid down by LSC for assessing each job role. The assessors selected by Assessment Agencies are scrutinized and made to undergo training and introduction to LSC Assessment Framework, competency-based assessments, assessors guide etc. LSC conducts "Training of Assessors" program from time to time for each job role and sensitize assessors regarding assessment process and strategy which is outlined on following mandatory parameters:

- 1) Guidance regarding NSQF
- 2) Qualification Pack Structure
- 3) Guidance for the assessor to conduct theory, practical and viva assessments
- 4) Guidance for trainees to be given by assessor before the start of the assessments.
- 5) Guidance on assessments process, practical brief with steps of operations
practical observation checklist and mark sheet
- 6) Viva guidance for uniformity and consistency across the batch.
- 7) Mock assessments
- 8) Sample question paper and practical demonstration

References

Glossary

Term	Description
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
OJT (M)	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on site
OJT (R)	On-the-job training (Recommended); trainees are recommended the specified hours of training on site
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training .
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module . A set of terminal outcomes help to achieve the training outcome.

Acronyms and Abbreviations

Term	Description
QP	Qualification Pack
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standards