



Model Curriculum

QP Name: Land Transportation Associate (Options – Customs Clearance)

QP Code: LSC/Q1001

QP Version: 3.0

NSQF Level: 3

Model Curriculum Version: 3.0

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Training Parameters

Sector	Logistics
Sub-Sector	Land Transportation
Occupation	Transport Operations, Vehicle Operations, Customer Support/Relations
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015-4221/4323 and ISCO-08/4323
Minimum Educational Qualification and Experience	<p>10th grade pass or equivalent with 2 Years of relevant experience in transportation</p> <p>OR</p> <p>8th grade pass with 4 Years of relevant experience in transportation</p> <p>OR</p> <p>Previous relevant Qualification of NSQF Level 2.5 with 1.5 Years of relevant experience in transportation</p>
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18
Last Reviewed On	07/10/2025
Next Review Date	07/10/2028
NSQC Approval Date	07/10/2025
QP Version	3.0
Model Curriculum Creation Date	07/10/2025
Model Curriculum Valid Up to Date	07/10/2028
Model Curriculum Version	3.0
Minimum Duration of the Course	390
Maximum Duration of the Course	450

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 will be able to:

- Execute consignment booking activities
- Schedule vehicle for consignment movement based on the type of consignment and delivery priority
- Perform route planning and resource scheduling activities
- Process gate entry and gate exit of vehicles
- Schedule consignment pickup by deploying the right vehicle
- Track consignment movement to report status
- Comply with workplace integrity, ethical and regulatory practices.
- Manage the workplace for a safe and healthy work environment by following compliance with regulatory and safety norms.
- Execute cargo consolidation to optimise travel, time, and cost
- Assist in customs clearance of goods by performing customs clearance activities

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 Associate	20	10			30
LSC/N1201 – Book consignments and prepare documents V3.0 NSQF Level 3	20	30	10		60
Module 2: Consignment booking and document preparation	20	30	10		60
LSC/N1004– Perform basic Route Planning and Scheduling V3.0 NSQF Level 3	20	30	10		60
Module 3: Basic Route Planning and Scheduling	20	30	10		60
LSC/N1001 – Undertake gate operations V3.0 NSQF Level 3	20	40			60
Module 4: Gate operations	20	40			60
LSC/N1132– Dispatch and track the consignments V3.0 NSQF Level 3	20	30	10		60
Module 5: Consignment dispatch and tracking	20	30	10		60

LSC/N1135 – Perform transport consolidation and consignment tracking V3.0 NSQF Level 3	20	40			60
Module 6: Consignment tracking and consolidation for transportation	20	40			60
LSC/N9911: Follow health, safety, and security procedures and maintain integrity and ethics at the workplace V1.0 NSQF Level 3	10	20			30
Module 7: Compliance with Health, safety, integrity and ethics at workplace	10	20			30
Employability Skills DGT/VSQ/N0101	15	15			30
Total Duration	145	215	30		390

Option Modules

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

Option 1: Customs Clearance

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
LSC/N2341 – Perform customs clearance activities V2.0 NSQF Level 3	30	30			60
Module 9: Customs clearance activities	30	30			60
Total Duration	30	30			60

Module Details

Module 1: Introduction to Land Transportation Associate

Mapped to Bridge Module

Terminal Outcomes:

- Describe the basic structure and function of the supply chain
- Detail the various functions of a Land Transportation Associate

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

Module 2: Consignment booking and document preparation

Mapped to LSC/N1201, V3.0

Terminal Outcomes:

- Detail the steps involved in consignment booking as per SOP
- Elaborate the process of preparing and processing consignment documents.

Duration: 20:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the procedure involved in order booking • Describe the method of calculating loading requirements to identify the type of truck required • Demonstrate the method to calculate transportation costs that occur during transit • List the important documents for land transportation such as GST permit, Lorry receipt, etc. • Explain the course of the problem that may occur during transit • Elaborate the process of preparing and processing consignment documents. 	<ul style="list-style-type: none"> • Receive order details from customers and plan for vehicles. • Perform the steps involved in order booking. • Compute the loading requirements to identify the type of truck required • Calculate the transportation cost that occurs during transit • Formulate documents such as GST permit, Lorry receipt, etc. • Illustrate preparing inbound documentation and agreement sheet
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS (Learning version), SOP, Stationery, markers, PPEs, ERP, computers with MS office, printers, GPS tracker etc.	

Module 3: Basic Route Planning and Scheduling

Mapped to LSC/N1004, V3.0

Terminal Outcomes:

- Detail the steps to be followed for route planning activities
- Elaborate the process of scheduling the consignments

Duration: 20:00	Duration: 30:00
<p>Theory – Key Learning Outcomes</p> <ul style="list-style-type: none"> • Detail the steps to be followed for the route planning procedure • Describe the method to set up daily truck route and trip assignment Set up daily truck route and trip assignment • Explain the route plan, schedule and necessary requirements to all stakeholders concerned • Elaborate the process of scheduling the consignments 	<p>Practical – Key Learning Outcomes</p> <ul style="list-style-type: none"> • List down the data to be collected for route planning. • Calculate the pickup and delivery sequence for the optimal time, allocation of loads, and vehicle capacity by entering the details in the route planning software • Perform the steps for route planning • Identify alternate routes for times of emergency • Set up daily truck route and trip assignment • Organize necessary driver and helper for the trip • Schedule for consignment pickup and delivery • Coordinate with the fleet supervisor for required drivers and cleaners allocation for the planned schedule
<p>Classroom Aids</p> <p>Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser</p>	
<p>Tools, Equipment and Other Requirements</p> <p>TMS (Learning Version), SOP, computers with MS office, ERP, worksheets, Route optimisation software, MS Excel and Access, Atlas Map, etc.</p>	

Module 4: Gate operations

Mapped to LSC/N1001, V3.0

Terminal Outcomes:

- Detail the steps to be followed for effective gate operation activities
- Elaborate the steps for creating Vehicle Gate entry passes.
- Describe the steps for creating Vehicle Gate exit passes.

Duration: 20:00	Duration: 40:00
<p>Theory – Key Learning Outcomes</p> <ul style="list-style-type: none"> • Detail the steps to prepare vehicle-wise/bay-wise daily schedule for loading and unloading based on daily dispatch/ receipt plan • Elaborate the steps for creating Vehicle Gate entry passes. • Describe the steps for creating Vehicle Gate exit passes. 	<p>Practical – Key Learning Outcomes</p> <ul style="list-style-type: none"> • Plan for the bay based on priority and type of goods to be loaded/ unloaded to get internal approval on its availability. • Record plan details in ERP/TMS to communicate details to all stakeholders • Demonstrate the steps for issuing Vehicle Gate Entry and Exit passes. • Inspect vehicle details and driver details for compliance with regulatory and consignment requirements • Communicate entry pass and exit pass through ERP/TMS • Check that all containers are gated out after completion of necessary customs and legal procedures against gate entry
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
TMS (Learning version), SOP, ERP, computers with MS office, stationery, projector, etc.	

Module 5: Consignment dispatch and tracking

Mapped to LSC/N1132, V3.0

Terminal Outcomes:

- Explain the steps to be followed for consignment pickup as per SOP
- Detail the steps to be followed for consignment and vehicle tracking

Duration: 20:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Detail the procedure to schedule consignment pickup by coordinating with transport companies and customers • Explain the steps to be followed in case of exigencies • Detail the steps to be followed for consignment and vehicle tracking • Discuss the process of recording information in ERP 	<ul style="list-style-type: none"> • Schedule consignment pickup by coordinating with transport companies and customers • Plan alternate vehicle in coordination with the Executive in case of exigencies • Communicate to the customer in case of any change in vehicle, pickup plan and schedule of operations • Inspect compliance to schedule by coordinating with the vehicle driver • Record the location of consignment in ERP periodically to track movement and compliance to schedule • Appraise Executive and Customer in case of documentation problems, accidents, GPS failure and any other 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), Microsoft Office, Global Positioning System (GPS) tracking, Enterprise Resource Planning (ERP)/ Transport Management System (TMS) software, computers with MS office, projector, stationery, worksheets, etc.	

Module 6: Consignment tracking and consolidation for transportation

Mapped to LSC/N1135, V3.0

Terminal Outcomes:

- Describe the method of preparing a consolidation plan based on the nature of goods, volume of goods, FTL/LTL and other related parameters
- Explain the way to design an effective loading plan

Duration: 20:00	Duration: 40:00
<p>Theory – Key Learning Outcomes</p> <ul style="list-style-type: none"> • Explain the components of the truck schedule and dispatch schedule • Describe the method of preparing a consolidation plan based on the nature of goods, volume of goods, FTL/LTL and other related parameters • Explain the way to design an effective loading plan • Describe the process of lashing and cushioning of goods in the truck • Demonstrate the way to record dispatch and delay details in ERP 	<p>Practical – Key Learning Outcomes</p> <ul style="list-style-type: none"> • 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 a loading plan to arrange goods in the demarcated space based on the bearing capacity of bin/pallet/crate and delivery order • Inspect compliance of loaded goods to the loading plan • Arrange for replacement of damaged goods during handling • Arrange for quarantine of damaged goods • Record dispatch and delay details in ERP
<p>Classroom Aids</p> <p>Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser</p>	
<p>Tools, Equipment and Other Requirements</p> <p>TMS (Learning version), Microsoft office and Enterprise Resource Planning (ERP), Computers with MS office, worksheet, stationery, SOP etc.</p>	

Module 7: Compliance with Health, safety, integrity and ethics at workplace

Mapped to LSC/N9911, V1.0

Terminal Outcomes:

- Discuss the health, safety and security procedures in warehousing
- Inspect the activity area and equipment, for appropriate and safe conditions

Duration: 10:00	Duration: 20:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Detail the safety regulations and procedures w.r.t fire hazards, biohazards, etc. • Explain various PPE utilized in logistics and their uses. • Describe data safety regulations and clear worktable policy. • Explain the importance of taking care of personal health and hygiene. • Detail the standard procedures to be followed during emergency situations. • Explain 5s at workplace and code of ethics. 	<ul style="list-style-type: none"> • Follow health, safety and security measures during all activities. • Wear all safety equipment including protective gear, helmets etc., in relevant bay areas. • Recognize unsafe conditions and safety practices at the workplace and report it to concerned authorities. • Comply with data safety regulations of the organization and follow clear worktable policy. • Maintain personal health and hygiene. • Practice basic first aid methods. • Follow procedures to handle emergency situations. • Protect data and information related to business or commercial decisions • Prevent company and customer information leakage. • Refrain from indulging in corrupt practices and consult senior management when in an ethical dilemma. • Follow organization procedures with respect to documentation.
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
Computers with MS office, PPE, MHE, instructional material, safety guidelines, safety signs etc., LLMS (Learning version), TMS (Learning version)	

Module 8: Employability Skills

Mapped to DGT/VSQ/N0101, V1.0

Terminal Outcomes:

- Appraise the significance of employability skills in meeting the job requirements
- Identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices.
- Illustrate English and communication skills, customer service, entrepreneurship, and getting ready for jobs and apprenticeships.

Duration: 15:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Detail the importance of Employability Skills in meeting the job requirements • Explain constitutional values, civic rights, duties, citizenship, responsibility towards society, etc., that are required to be followed to become a responsible citizen. • Describe positive attitude, self-motivation, problem-solving, time management skills and continuous learning mindset in different situations. • Discuss the significance of reporting sexual harassment issues in time • Appraise the significance of using financial products and services safely and securely. • Explain the importance of managing expenses, income, and savings. • Detail the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws • Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely • Categorize the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges • Discuss the significance of maintaining hygiene and dressing appropriately • Discuss how to search and register for apprenticeship opportunities 	<ul style="list-style-type: none"> • Analyze 21st-century skills. • Practice appropriate basic English sentences/phrases while speaking • Demonstrate how to communicate in a well-mannered way with others. • Illustrate working with others in a team • Demonstrate how to conduct oneself appropriately with all genders and PwD • Operate digital devices and use the associated applications and features, safely and securely • Differentiate between types of customers • Create a biodata • Experiment with various sources to search and apply for jobs • Identify customer needs and address them • Compose the significance of dressing up neatly and maintaining hygiene for an interview
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	
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, LLMS & TMS .	

Module 9: Customs clearance activities

Mapped to LSC/N2341, v1.0

Terminal Outcomes:

- Detail the appropriate steps to be followed for effective field activities in customs clearance
- Elaborate on the customs clearance activities that can be performed from the office.

Duration: 30:00	Duration: 30:00
<p>Theory – Key Learning Outcomes</p> <ul style="list-style-type: none"> • Discuss the documentation requirement for customs clearance • Describe the dispute resolution process in customs clearance • Describe different packaging requirements as per customer/ country/ product requirements • Detail customs inspection and container/cargo sealing process • List the various documents to be submitted to the shipper, customs agent, and EXIM office for filing and processing • Elaborate on the customs clearance activities that can be performed from the office. 	<p>Practical – Key Learning Outcomes</p> <ul style="list-style-type: none"> • Prepare documents required for customs clearance • Resolve disputes in customs clearance as per company policy • Inspect the accuracy of packaging as per customer/ country/ product requirements • Perform customs inspection and container/cargo sealing • Plan for cargo handling and movement • Report daily shipment activities, photographs of seals, container number, cargo stuffing and other relevant details relating to customs clearance • Submit records to the shipper, customs agent, and EXIM office for filing and processing. • Demonstrate the customs clearance activities that can be performed from the office.
<p>Classroom Aids</p> <p>Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser</p>	
<p>Tools, Equipment and Other Requirements</p> <p>TMS (Learning version), SOP, EDI, ERP, worksheets, stationery, computers with MS office, projector, etc.</p>	

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Any degree		2	Land Transportation			

Trainer Certification	
Domain Certification	Platform Certification
Certified for Job Role: “Land Transportation Associate” mapped to QP: “LSC/Q1001, V3.0”. 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	
Any degree		2	Land Transportation			

Assessor Certification	
Domain Certification	Platform Certification
Certified for Job Role: “Land Transportation Associate” mapped to QP: “LSC/Q1001, V3.0”. 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 log book 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:
 - a. True / False Statements
 - b. Multiple Choice Questions
 - c. Matching Type Questions
 - d. Fill in the blanks
 - e. Scenario based Questions
 - f. 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:

- i. Guidance regarding NSQF
- ii. Qualification Pack Structure
- iii. Guidance for the assessor to conduct theory, practical and viva assessments
- iv. Guidance for trainees to be given by assessor before the start of the assessments.
- v. Guidance on assessments process, practical brief with steps of operations practical observation checklist and mark sheet
- vi. Viva guidance for uniformity and consistency across the batch.
- vii. Mock assessments
- viii. 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).
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