



Model Curriculum

QP Name: Supply Chain Associate

**(Electives: Pharmaceutical plant/ Leather/ FMCG/ Automotive/
Electronics)**

(Options: Route planning and vendor coordination)

QP Code: LSC/Q3201

QP Version: 1.0

NSQF Level: 3

Model Curriculum Version: 1.0

Training Parameters

Sector	Logistics
Sub-Sector	Supply Chain
Occupation	In-plant logistics, Transport Management
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015/ 4321.0601 to 0604 and ISCO -08/4321, 4322, 8344
Minimum Educational Qualification and Experience	Completed Grade 10 OR Completed Grade 8 + 2 year relevant experience in supply chain OR Completed 5th grade + 5 year relevant experience in supply chain
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	1.0
Model Curriculum Creation Date	04-07-2022
Model Curriculum Valid Up to Date	25-08-2025
Model Curriculum Version	1.0
Minimum Duration of the Course	360
Maximum Duration of the Course	660

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:

- Perform loading and unloading as per SOP.
- Demonstrate sorting and segregation of raw materials at plant warehouse
- Perform inventory counting and maintenance activities as per SOP
- Perform picking and kitting in the plant warehouse as per SOP
- Demonstrate line feeding operations as per SOP
- Comply to workplace integrity, ethical and regulatory practices.
- Manage workplace for safe and healthy work environment by following compliance to regulatory and safety norms.
- Demonstrate handling of pharmaceutical raw materials as per SOP
- Demonstrate the process of handling leather in plant warehouse
- Demonstrate handling of raw materials in the FMCG plant
- Detail the process of handling automotive components as per guidelines and SOP
- Demonstrate the process of handling electronic components per SOP
- Perform route planning and resource scheduling 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 Supply Chain Associate	20	10			30
LSC/N0102 – Loading and Unloading V1.0 NSQF Level 3	20	30	10		60
Module 2: Loading and Unloading	20	30	10		60
LSC/N3205 – Handling stock at In-plant warehouse V1.0 NSQF Level 3	20	30	10		60

Module 3: Handling raw materials at in-plant warehouse	20	30	10		60
LSC/N3206 – Perform Line feeding operations V1.0 NSQF Level 3	20	30	10		60
Module 4: Line feeding operations	20	30	10		60
LSC/N9908 – Maintain and monitor integrity and ethics in operations V1.0 NSQF Level 3	10	20			30
Module 5: Guidelines on integrity and ethics	10	20			30
LSC/N9909 – Follow and monitor health, safety, and security procedures V1.0 NSQF Level 3	10	20			30
Module 6: Compliance to health, safety and security norms	10	20			30
Employability Skills DGT/VSQ/N0101	15	15			30
Total Duration	115	155	30		300

Elective Modules

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

Elective 1: Pharmaceuticals – In Plant

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
LSC/N3207 – Handling raw materials in pharmaceutical manufacturing plant V1.0 NSQF Level 3	30	30			60
Module 7: Pharmaceutical raw materials handling	30	30			60
Total Duration	30	30			60

Elective 2: Footwear/Leather – In Plant

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
LSC/N3201 – Handling Leather in Footwear Manufacturing Plant V1.0 NSQF Level 3	30	30			60
Module 8: Leather handling	30	30			60
Total Duration	30	30			60

Elective 3: FMCG – In Plant

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
LSC/N3202 – Handling raw material in FMCG Manufacturing Plant V1.0 NSQF Level 3	30	30			60
Module 9: FMCG raw material handling	30	30			60
Total Duration	30	30			60

Elective 4: Automotive – In Plant

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
LSC/ N3203 – Handling automotive components in the automotive manufacturing plant V1.0 NSQF Level 3	30	30			60
Module 10: Automotive component handling	30	30			60
Total Duration	30	30			60

Elective 5: Electronics – In Plant

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
LSC/N3204 – Handling components and parts in the electronics assembly plant V1.0 NSQF Level 3	30	30			60
Module 11: Electronic component handling	30	30			60
Total Duration	30	30			60

Optional Modules

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

Option 1: Route planning and vendor coordination

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
LSC/N1004 – Route planning and vendor coordination V1.0 NSQF Level 3	30	30			60
Module 12: Route planning and vendor coordination	30	30			60
Total Duration	30	30			60

Module Details

Module 1: Introduction to Supply Chain Associate

Mapped to Bridge Module

Terminal Outcomes:

- Describe the basic structure and function of supply chain
- Detail the various functions in plant activities

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 plant operations • Detail your job role as supply chain associate and its interface with other job roles • Explain various activities in a transport yard • Describe the various MHEs and equipment used in warehouse • Discuss the documentation requirements for goods transport 	<ul style="list-style-type: none"> • Identify various activities in plant operations • Perform your job role as a supply chain associate • Prepare important documents related to in plant operations
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
WMS(Learning version), TMS(Learning version), Personal Protective Equipment (PPEs), Material Handling Equipment (MHEs) like pallet truck (manual and battery operated), etc. barcode scanner, packing devices, packing material etc.	

Module 2: Loading and Unloading

Mapped to LSC/N0102, v1.0

Terminal Outcomes:

- Perform loading and unloading as per SOP.
- Detail appropriate usage of PPE, MHE and various tools for loading/unloading.

Duration: 20:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe the MHE equipment used for loading/unloading. • Detail the PPE to be used for loading/unloading of various types of goods. • Detail usage of tools, ropes/chains to secure product/crate. • Discuss handling procedure for breakage/ spillage of package/ consignment. 	<ul style="list-style-type: none"> • Identify the MHE equipment used for loading/unloading. • Identify the PPE to be used for loading/unloading of various types of goods. • Demonstrate the usage of tools, ropes/chains to secure product/crate. • Perform handling of breakage/ spillage of package/ consignment as per SOP. • Perform loading/unloading as per SOP. • Demonstrate the procedure of parking MHE equipment correctly. • Report daily operations.
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
WMS(Learning version), TMS(Learning version), Personal Protective Equipment (PPEs), Material Handling Equipment (MHEs) like pallet truck (manual and battery operated), etc. barcode scanner, packing devices, packing material etc.	

Module 3: Handling raw materials at In-Plant warehouse

Mapped to LSC/N3205, v1.0

Terminal Outcomes:

- Demonstrate sorting and segregation of raw materials at In-plant warehouse
- Perform inventory counting and maintenance activities as per SOP

Duration: 20:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • List the steps to be performed for sorting of goods as per SOP • Detail the steps to be performed after goods received are moved to the appropriate sub stores as per guidelines • Describe the inspection process for damages and spillages • Discuss the escalation matrix for reporting deviation • Explain the inventory check procedure using barcodes, scanner etc. • Explain the procedure for cleaning and maintaining warehouse • Explain the appropriate procedure for conducting pest control activities 	<ul style="list-style-type: none"> • Demonstrate segregation and movement of goods into appropriate sub stores depending upon the type of storage • Prepare various reports such as daily reports, damage/spillage reports as per SOP • Inspect inventory count by carrying out spot checks • Perform daily maintenance checks as per SOP • Perform pest control activities as per SOP • Demonstrate cleaning of warehouse as per SOP
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
WMS(Learning version), TMS(Learning version), Personal Protective Equipment (PPEs), Material Handling Equipment (MHEs) like pallet truck (manual and battery operated), etc. barcode scanner, packing devices, packing material etc.	

Module 4: Line Feeding Operations

Mapped to LSC/N3206, v1.0

Terminal Outcomes:

- Perform picking and kitting in the plant warehouse as per SOP
- Demonstrate line feeding operations as per SOP
- Detail the steps to be performed for return of material from line store

Duration: 20:00	Duration: 30:00
<p>Theory – Key Learning Outcomes</p> <ul style="list-style-type: none"> • List the steps to be performed before picking process • List the different components of a picklist • Discuss the different types of MHE's used for picking • List the steps required to prepare for kitting • Discuss the escalation matrix for reporting deviations • List the checks to performed before transporting the goods to the line feeding section as per SOP • Discuss the cautions to be observed while transporting goods to the line feeding location 	<p>Practical – Key Learning Outcomes</p> <ul style="list-style-type: none"> • Demonstrate the picking process and delivery in the kitting/line feeding section • Perform segregation of items to be kitted • Demonstrate kitting of items in the assigned bin/crate/fixture as per BOM • Demonstrate the correct procedure of checking part number in label with feeding location label as per SOP. • Perform feeding of components/parts to the line as per SOP • Detail the procedure of returning empty bins/crates/fixtures to the store/warehouse • Detail the procedure of returning unused/damaged goods to the store/warehouse • Prepare daily reports on kitting operation, picking operation, line feeding, line rejections etc.
<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>WMS(Learning version), TMS(Learning version), Personal Protective Equipment (PPEs), Material Handling Equipment (MHEs) like pallet truck (manual and battery operated), etc. barcode scanner, packing devices, packing material etc.</p>	

Module 5: Guidelines on integrity and ethics

Mapped to LSC/N9908, v1.0

Terminal Outcomes:

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

Duration: 10:00	Duration: 20:00
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"> • 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 • 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	
WMS(Learning version), TMS(Learning version), LLMS(Learning version), Personal Protective Equipment (PPEs), Material Handling Equipment (MHEs) like pallet truck (manual and battery operated), etc. barcode scanner, packing devices, packing material etc.	

Module 6: Compliance to health, safety and security norms

Mapped to LSC/N9909, v1.0

Terminal Outcomes:

- Describe health, safety, and security procedures in warehouse
- 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: 10:00	Duration: 20:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Detail health, safety, and security procedures in warehouse • Describe the 5S to be followed • Explain the inspection procedure to ensure appropriate and safe conditions of activity area and equipment • Discuss 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"> • Follow health, safety and security procedures in warehouse • 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	
WMS(Learning version), TMS(Learning version), LLMS(Learning version), Personal Protective Equipment (PPEs), Material Handling Equipment (MHEs) like pallet truck (manual and battery operated), etc. barcode scanner, packing devices, packing material etc.	

Module 7: 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 apprenticeship.

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

WMS(Learning version), 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 8: Pharmaceutical raw material handling

Mapped to LSC/N3207, v1.0

Terminal Outcomes:

- Detail the required steps in de dusting procedure for materials
- Detail the quantity verification procedure
- Explain the escalation matrix for reporting deviation

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • List the steps to be performed in de dusting procedure • Detail the steps to be performed in quantity verification procedure • State the storage requirements of different types of materials such as loose raw materials, liquids, hazardous etc. • Explain the process of handling rejected material • Discuss the correct labelling procedure for materials in the storage room 	<ul style="list-style-type: none"> • Demonstrate the de dusting procedure for materials as per SOP • Demonstrate the steps to be performed in quantity verification procedure as per SOP • Perform segregation of raw materials as per the storage requirements for different types of materials • Demonstrate the process of handling rejected raw materials as per SOP • Perform appropriate labelling of material in the storage area
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
WMS(Learning version), TMS(Learning version), Personal Protective Equipment (PPEs), Material Handling Equipment (MHEs) like pallet truck (manual and battery operated), etc. barcode scanner, packing devices, packing material etc.	

Module 9: Leather Handling

Mapped to LSC/N3201, v1.0

Terminal Outcomes:

- Demonstrate the process of handling leather in plant warehouse

Duration: 30:00	Duration: 30:00
<p>Theory – Key Learning Outcomes</p> <ul style="list-style-type: none"> • Detail the various precautions to be followed while handling leather • State the correct temperature for storing leather • Demonstrate ability to segregate leather as grade A, Grade B and Grade C • Detail the storage requirements for different types of leathers such as colored leather, oily leather etc. • Examine leather for damages and defects 	<p>Practical – Key Learning Outcomes</p> <ul style="list-style-type: none"> • Identify the different grades of leather • Demonstrate the correct procedure of stacking leather to avoid damages • Demonstrate the various precautions to be undertaken while handling of leather to avoid damages • Perform storage of different types of leather as per SOP • Identify damages and defects in leather
<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>WMS(Learning version), TMS(Learning version) Personal Protective Equipment (PPEs), Material Handling Equipment (MHEs) like pallet truck (manual and battery operated), etc. barcode scanner, packing devices, packing material etc.</p>	

Module 10: FMCG raw material handling

Mapped to LSC/N3202, v1.0

Terminal Outcomes:

- Demonstrate handling of raw materials in the FMCG plant

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • List the various types of coding in a FMCG warehouse • Detail the components of documentation for FMCG warehouse goods movement process • Explain FIFO, LIFO inventory management processes • Detail the steps in inventory counting process • Explain the escalation procedure for reporting deviation 	<ul style="list-style-type: none"> • Identify goods and its storage location based on picklist • Perform various types of order picking such as, single order picking, batch picking, zone picking, pick and pass, multi batch picking, order consolidation, wave picking etc. • Demonstrate sorting and placing of goods as per size, type, style, colour, or product code • Perform cleaning of pallets to ensure they are clean, mould free, off infestation etc. • Report defective or broken products
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
WMS(Learning version), TMS(Learning version), Personal Protective Equipment (PPEs), Material Handling Equipment (MHEs) like pallet truck (manual and battery operated), etc. barcode scanner, packing devices, packing material etc.	

Module 11: Automotive component handling

Mapped to LSC/N3203, v1.0

Terminal Outcomes:

- Detail the process of handling automotive components as per guidelines and SOP

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Detail the process of handling automotive components as per guidelines and SOP • Explain the process of sequencing as per SOP • Detail the quantity verification procedure • Explain the escalation matrix for reporting deviation 	<ul style="list-style-type: none"> • Demonstrate the process of handling automotive components as per guidelines and SOP • Demonstrate the process of sequencing as per SOP • Perform the quantity verification procedure as per SOP
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
WMS(Learning version), TMS(Learning version), Personal Protective Equipment (PPEs), Material Handling Equipment (MHEs) like pallet truck (manual and battery operated), etc. barcode scanner, packing devices, packing material etc.	

Module 12: Electronics component handling

Mapped to LSC/N3204, v1.0

Terminal Outcomes:

- Demonstrate the process of handling electronic components per SOP

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • State the temperature requirement of the warehouse for storing electronic components • Describe the process of segregating and storing components as per SOP • List the steps involved in transporting components to line feeding areas as per SOP 	<ul style="list-style-type: none"> • Inspect for adherence to necessary certifications for electronic components such as ISO 9001:2008, AS9100 • Demonstrate the process of disposing packaging material as per SOP • Demonstrate the process of handling PCB as per guidelines prescribed in PCB-1601, ANSI/ESD S20.2 or equivalent. • Prepare daily report on defects/broken pieces etc.
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
WMS(Learning version), TMS(Learning version), Personal Protective Equipment (PPEs), Material Handling Equipment (MHEs) like pallet truck (manual and battery operated), etc. barcode scanner, packing devices, packing material etc.	

Module 13: Route Planning and Vendor Coordination

Mapped to LSC/N1004, v1.0

Terminal Outcomes:

- Perform route planning and resource scheduling activities as per SOP

Duration: 30:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Identify point of origin, destination, type of good, pick-up time and date for a transit • Explain the route planning procedure • Set up daily truck route and trip assignment • Identify alternate routes for times of emergency • Organize necessary driver and helper for trip • Arrange for consignment pickup and delivery 	<ul style="list-style-type: none"> • Collect 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 transporter details • Use route planning software to calculate the pick and delivery for optimal time, space and distance coverage • Plan daily truck route and trip assignment • Plan alternate route in case of emergency • Demonstrate the route plan, schedule and necessary requirements to all stakeholders concerned • Arrange for necessary vehicle, drivers and cleaners for the trip • Plan for consignment pickup and delivery
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
WMS(Learning version), TMS(Learning version), Personal Protective Equipment (PPEs), ERP/TMS(Learning version), SOP	

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
12 th Pass/ Graduate (Any Degree)	NA	2	Warehouse operations, In plant warehousing operations	1	Warehousing operations, in plant warehousing operations	Graduation is preferred

Trainer Certification	
Domain Certification	Platform Certification
Certified for Job Role: "Supply Chain Associate" mapped to QP: "LSC/Q3201, v1.0". 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/ Graduate (Any Degree)	NA	2	Warehousing operations, in plant operations	1	Warehousing operation, in plant operations	Graduation is preferred

Assessor Certification	
Domain Certification	Platform Certification
Certified for Job Role: "Supply Chain Associate" mapped to QP: "LSC/Q3201, v1.0". 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:

- 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