

Senior Secondary Course

Curriculum

Basics of Transportation

1. Rationale

Transportation plays a central role in supply chains, affecting every part of the process that starts from planning and procurement to supply and lifecycle management. Transportation plans must be multi-modal, be coordinated with land use planning, include community inputs, and account for environmental and social impacts. Transportation plans play a crucial role in analyzing issues, setting priorities, and guiding programming. The Basics of Transportation course will empower the learner to perform better and as per industries requirements.

2. Objectives

The objectives of developing this course are to:

- lay the groundwork for learners' future jobs in logistics, Transportation and other similar professions by teaching them the Basics of Transportation;
- clarify the nature and scope of various forms of transportation leading to selection of the best option for specific situations;
- develop entrepreneurial skills in learners and equip them with knowledge of modern forms of transportation to ensure timely and smooth delivery of products;
- emphasize the need to meet the dictates of market and manage both inbound and outbound logistics;
- develop an efficient workforce to transport products to customers on time and in good condition and play a vital role in reducing the overall cost of goods and services.

3. Scope

Transportation is a derived facility for the service industries. Growths of E-Commerce and policy announcements to promote the sector have also given a fillip to the development of the industry. Digitization and extended distribution chains provide multiple opportunities for entrepreneurial ventures too. Imparting skills in transportation while in school shall make students aware of opportunities for employment and entrepreneurship, enabling them to channelize effort and time in the outcome-oriented activity.

4. Eligibility Conditions

- a. Age: 14 years and above
- b. Qualification: Secondary pass

5. Course Structure

Module Name	Marks	Study Hours
Module 1: Introduction about Transportation		
L-1: Transportation & Mobility		
L-2: Types of Transport Modes		
L-3: Essentials of Transport		
L-4: Concept of Multi Modal Transport		
L-5 : Freight Forwarder & MMLP	15	25
Module 2: Consolidation of Cargo		
L-6 :Introduction to Consolidation		
L-7: Consolidation , Importance & Limitations		
L-8: Shipper’s and Buyer’s Consolidation		
L-9: Modes of Transportation for Consolidation		
L -10: Air Consolidation		
L-11: Ocean Consolidation		
L-12: Road Consolidation	25	50
Module 3: Inbound and Outbound documentation		
L-13: Inbound and outbound documentation		
L-14: Quality check and Inventory Documentation		
L-15: Transport Coordination	10	35
Module 4: Feasibility assessment and route optimization		
L-16: Transportation Requirements		
L-17: Route Optimization		
L-18: Transport Policies In India		
L-19: Cargo Arrangement And Consolidation Charge	10	50
Module 5: GST and Its Applications		
L -20 : Goods and Services Tax		
L-21 : Documentation for GST application		
L -22 : GST and Modes of Transportation		
L- 23 : Filing an E-way Bill		
L-24 : Bill of lading and Bill of Entry	20	40
Sub Total	80 Marks	200 Hours
Internship	20 Marks	40 Hours
Total	100	240

6. Medium of Instruction

English (The course shall be translated in Hindi and regional mediums as per need)

7. Teaching Methodology

Theory: Printed self learning material with face-to-face contact sessions for academic support.

Assignment: One assignment shall be administered for continuous assessment and project work.

8. Evaluation

Evaluation for this subject shall consist of internal evaluation through Tutor Marked Assignments (TMA) and term end external examination. The external examinations will be conducted twice a year i.e. in the months of April and October. TMA will be treated as a learning tool. It will enable the learners to know their progress and to prepare well for the examination. Besides the above strategies of evaluation, certain inbuilt components for self evaluation in the form of Intext Questions, Terminal Questions, Role Play and Activity for learners would also be provided in each lesson.

9. Scheme of Evaluation

Term End Examination (TEE) – 80 Marks

Internship - 20 Marks

Tutor Marked Assignment (TMA) – 20% of Theory

Pass Criteria- 33% separately in theory and Internship

10. Course Description

Module 1: Introduction about Transportation

L-1: Transportation & Mobility

L-2: Types of Transport Modes

L-3: Essentials of Transport

L-4: Concept of Multi Modal Transport

L-5 : Freight Forwarder & MMLP

Concept of Multimodal & Intermodal Transport, Introduction to Multimodal transport, the difference between Multimodal and Intermodal transport, Type of transport Modes, Detail and characteristics of air, road, rail, water, pipelines, package carriers, Need, Aim and Key Issues of Multimodal transport.

Module 2: Consolidation of Cargo

L-7: Consolidation, importance & Limitations

L-6 : Introduction to Consolidation

L-8: Shipper's and Buyer's Consolidation

L-9: Modes of Transportation for Consolidation

L -10: Air Consolidation

L-11: Ocean Consolidation

L-12: Road Consolidation

Introduction and understanding of Consolidation, Processes involved, importance & Limitations of Consolidation, Shipper's and Buyer's Consolidation, Modes of Transportation for Consolidation - Air, Ocean & Road, Air Consolidation - (Process and Documentation involved), Ocean Consolidation - LCL cargo (Process & Documentation involved), Ocean Consolidation - LCL cargo (Process & Documentation involved), Road Consolidation - LTL to FTL (Region wise)

Module 3: Inbound and outbound documentation

L-13: Inbound and outbound documentation

L-14: Quality check and inventory documentation

L-15: Transport coordination

Inbound and outbound documentation, Quality check and inventory documentation, Transport coordination

Module 4: Feasibility assessment and route optimization

L-16: Transportation requirements

L-17: Route optimization

L-18: Transport policies in India

L-19: Cargo Arrangement and consolidation charge

Transportation requirements based on consignment volume, type, and destination, ODC, Right transporter based on cost analysis and compliance to delivery dates, Documentation for transportation of goods, Cargo Arrangements and consolidation charts

Module 5: GST and its application

L -20 : Goods and Services Tax

L-21 : Documentation for GST application

L -22 : GST and Modes of Transportation

L- 23 : Filling an E-way Bill

L-24 : Bill of lading and Bill of Entry

Classification of the transaction with Intra-State or Inter-state and match with the applicable GST and Central Goods and Services Tax (CGST), Integrated Goods and Services Tax (IGST), State Goods and Services Tax (SGST), GST is payable under reverse charge in case the Service provider is an unregistered party, GST Identification Number (GSTIN), Permanent account number (PAN) number, email id Description about Service Accounting Code (SAC) / HSN code, Unique Identification Number (UIN) for multilateral entity, Filling of E-way Bill, Bill of lading and Bill of Entry