

<b>Course Name</b>	<b>Port Management and Terminal Management</b>
<b>Course Name as on Certificate</b>	<b>Programme in Port and Terminal Management</b>
<b>Certificate Type</b>	Certificate of Completion by IIT-MADRAS
<b>Certificate Issued by</b>	IIT MADRAS
<b>Course Objectives</b>	<ol style="list-style-type: none"> <li>1. To ensure a thorough knowledge and understanding of port and terminal management</li> <li>2. To make students qualified and trained professionals as the country is looking forward to develop more ports of the east and west coast in India</li> <li>3. To make the student understand and handle critical situation scientifically.</li> <li>4. To learn about entire cargo work related to landing and distributing of ship as strict discipline diligence care &amp; planning will have executed</li> </ol>
<b>Eligibility</b>	<ul style="list-style-type: none"> <li>• A bachelor's degree from a recognised Indian University or students pursuing graduation</li> <li>• An employee with minimum one year experience in Shipping &amp; Logistics</li> </ul>
<b>Pre Requisites</b>	<ul style="list-style-type: none"> <li>• Basic Knowledge about import &amp; Export Process</li> </ul>
<b>Target Segment</b>	<ul style="list-style-type: none"> <li>• All new entrants who wish to take up commercial shipping and related logistics as a career</li> <li>• People those who are Target Participants already working in shipping or related logistics sectors</li> </ul>
<b>Course Content</b>	<b>See Enclosed Programme details – as Annexure 1</b>
<b>Pedagogy</b>	<ul style="list-style-type: none"> <li>• The Primary method of instruction will be through Online Video Classes.</li> <li>• Participants can access the courses via Desktop / Laptop / Smart phone.</li> <li>• The lectures and content are created by Logistics Experts, Eminent Trainers &amp; Experienced Academician</li> <li>• Industrial Training/ Industrial Vist</li> <li>• This programme is a Compilation of Video Lectures, Mock Tests, Quiz, Group Discussions and Case Studies.</li> </ul>
<b>Assessment</b>	The students can assess their learning by undertaking Mock Tests, Quiz and Case Studies.
<b>Programme Faculty</b>	<ul style="list-style-type: none"> <li>• Prof. Bobin jos, Prof. Unnikrishnan, Dr. Rajan Babu and Mr. Jude Vallabadas</li> </ul>
<b>Duration</b>	80 Hours of Theory and 7 hours of Case Study.
<b>Validity</b>	Students will have to complete the programme within 90 days after registering for the course.

<b>Programme Highlights/USPs</b>	<p><b>On successful completion of the programme, you will have a good understanding of</b></p> <ul style="list-style-type: none"> <li>• To understand the role of ports in international trade and transport</li> <li>• To understand the special requirements of unitised liner cargoes</li> <li>• To understand the basic rationale of port business</li> <li>• To understand the prime importance of avoiding traffic and cargo congestion</li> <li>• To be aware of the various regulatory mechanisms including user appeals against charges</li> <li>• To be aware of laws and regulations relating to the employment of dockworkers</li> <li>• To understand flow analysis of cargo in a terminal and environmental factors and constraints</li> <li>• To understand the need for a corporate analysis of financial data and for budgetary planning</li> <li>• and control</li> <li>• To understand the different cargo-handling equipment, types, their costs and the need for</li> <li>• maintenance management.</li> <li>• To be aware of the transfer of party from state to private ownership, methods of privatisation, sale of shares, management and employee buyouts</li> </ul> <p><b>Other Highlights:</b></p> <ul style="list-style-type: none"> <li>• Opportunity to earn a Certificate from IIT Madras.</li> <li>• Lectures imparted by Eminent Academicians and practicing Industry Experts.</li> <li>• Fully Online Pre-Recorded Course with online lectures that provides a “real” classroom experience in a “virtual” environment.</li> <li>• Seamless technology that can transmit lecture videos effectively at home broadband connection of 512 kbps.</li> <li>• User friendly and easy to use technology interface. No expensive and time-consuming software/hardware installations required at your end.</li> <li>• Through our web portal, Students are provided access to course presentations, case studies, assignments and other reference materials as applicable for specified courses</li> <li>• Learn from Anywhere – No need to travel to an institute or training centre. Learning continues even if you are traveling or not available at any specific location. You may also learn from the comfort of your home at your convenient time.</li> </ul>		
	<b>Total Fees</b>		<b>Total Fees (Rs.)</b>
Total Programme		INR 25,000 + GST as applicable	

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## Syllabus

### 1. Introduction

- a. Introduction to shipping
- b. Logistics Role in the Economy/Organization
- c. Logistics and Customer Service
- d. Logistics and supply chain management
- e. Five P's and 7 R's of Logistics Management
- f. Modes of Transportation
- h. World Sea Routes
- l. Major And Minor Ports In India

### 2. Logistics Services

- a. Containerisation
- b. Ocean Freight Rates -Ocean Freight Calculation
- c. ICD, CONCOR, CFS - Functions
- d. Customs Brokers
- e. Freight Forwarders and Consolidators
- f. Shipping Agents
- g. Stevedorers
- h. Documentation

### 3. Port Operations:

- a. Ports and Harbours
- b. Port Limits, EZ, customs frontier
- c. Tidal variations, Natural Harbour, Artificial harbour, Warm water port, All weather port.
- d. Breakwater, out/ anchorage, port conservancy by dredging for deep berth
- e. Different types of Berths
- f. Port charges
- g. Cargo related charges
- h. Role of TAMP

#### **4. Container Terminals**

1. Facilities in a terminals
2. Privatisation of terminals
3. Import/export cycle of terminal
4. Last minute connectivity

#### **5. Cargo Work:**

- a. Different types of Cargo
- b. Different types of Packaging
- c. Broken stowage
- d. Angle of Repose and Bulk cargo
- e. Proper and improper storage
- f. Stowage factor and grain/bale capacity
- g. 3. Broken Stowage and its importance
- h. 4. Maintenance trim and balance

#### **6. The Stevedore**

- a. Importance of Stevedore
- b. Knowledge of Stevedore
- c. Coordination of Loading and Discharging
- d. Selecting the right equipment
- e. Right workforce

#### **7. Ship**

- a. Displacement, Standard displacement
- b. DWT, GRT, NRT, Lightship, LOA, BEAM
- c. Cargo Calculation based on stowage factor
- d. Broken stowage
- e. Reason for broken stowage and financial loss

#### **8. Cargo**

- a. Bulk cargo and its nature
- b. Moisture content, maximum moisture limit
- c. Spontaneous combustion of coal cargo and MSDA certification

- d. Working of project cargo
- e. Gear safety and certification

### **9. Essentials of Logistics**

- a. Applications of information Technology
- b. Inventory Control
- c. Decision Making
- d. Statistics of Service
- e. Technical aspects of Shipping
- f. Simulation Analysis

### **10 Case Studies**