

## Unit 6: Port Operations

### Topics

- ◆ Ports as Open Systems
- ◆ Measuring Port Performance
- ◆ Port Management and Operations
- ◆ Types of Port Ownerships
- ◆ Port Regulation
- ◆ Privatisation
- ◆ Port Costs
- ◆ Port Tariffs
- ◆ Security and Safety in Ports

Knowledge	Competencies
<ul style="list-style-type: none"> <li>◆ Impact of internal and external factors on a port organisation</li> <li>◆ Recent developments in the port sector</li> <li>◆ Identifying port costs and revenue items</li> <li>◆ Explaining the elements of a port tariff</li> <li>◆ The impact of port facilities on port productivity</li> <li>◆ Port productivity measurements for different type of terminals</li> <li>◆ Different types of terminals</li> <li>◆ Different types of port equipment</li> <li>◆ Principles of port management and operations</li> <li>◆ The relationship between regulators and operators</li> <li>◆ The need for port reform and privatization</li> <li>◆ The role of management in curtailing costs</li> <li>◆ Issues of port security and safety</li> <li>◆ Handling dangerous goods</li> </ul>	<ul style="list-style-type: none"> <li>◆ Identify the internal and external factors that have an impact on port operations</li> <li>◆ Explain the role of ports</li> <li>◆ Identify factors that influence port performance</li> <li>◆ Measure port performance</li> <li>◆ Illustrate different productivity rates for different types of terminals</li> <li>◆ List different types of port equipment including containers</li> <li>◆ Identify the responsibilities of terminal management</li> <li>◆ Show a typical port organisation set-up and responsibilities therein</li> <li>◆ Identify the information required for efficient port operations</li> <li>◆ Assess alternative forms of port management and control structures</li> <li>◆ Explain the port reform and privatization process</li> <li>◆ Prepare port costs, prices and revenue items</li> <li>◆ Reduce Costs</li> <li>◆ Contribute to the organisation's budget</li> <li>◆ Introduce a billing system</li> <li>◆ Explain port security and safety measures</li> <li>◆ Describe the International Ship and Port Facility Security (ISPS) Code</li> <li>◆ Recommend measures that can be taken to strengthen port security and safety</li> </ul>

Key Learning Point	Coverage
Systems View of Ports	<ul style="list-style-type: none"> <li>◆ The Role of Ports</li> <li>◆ Definitions</li> <li>◆ Organisations as "Open Systems" The role of management</li> <li>◆ Role of Ports in the Economy</li> <li>◆ Choosing the Right Mode</li> <li>◆ Open Systems</li> <li>◆ Developments in Seaborne Trade</li> <li>◆ Port Facilities: Impact on Productivity</li> <li>◆ Reducing Port Costs</li> </ul>
Port Performance Indicators	<ul style="list-style-type: none"> <li>◆ Port Performance Indicators</li> <li>◆ Port Equipment</li> </ul>
Port Management and Operations	<ul style="list-style-type: none"> <li>◆ Terminal Management and Operations</li> <li>◆ Terminal Operating Company Departments</li> <li>◆ Type of Terminals</li> <li>◆ Information Requirements</li> </ul>

	<ul style="list-style-type: none"> <li>◆ Planning and Operations Process</li> </ul>
Port Ownership and Regulation	<ul style="list-style-type: none"> <li>◆ Alternative Port Ownership Structures</li> <li>◆ Port Authorities</li> <li>◆ Private Port Operators</li> <li>◆ The Need for Port Reform</li> <li>◆ Privatisation of Port Operations</li> <li>◆ Advantages of Port Reform</li> </ul>
Port Costs and Charges	<ul style="list-style-type: none"> <li>◆ Port Tariff</li> <li>◆ Port Charges</li> <li>◆ Port Costs</li> <li>◆ Curtailing Costs: The Operations Manager's Role</li> <li>◆ The Billing Process</li> </ul>
Security and Safety in Ports	<ul style="list-style-type: none"> <li>◆ Port Security</li> <li>◆ The International Ship and Port Facility Code</li> <li>◆ Health and Safety in Ports</li> <li>◆ Handling Dangerous Goods</li> <li>◆ Safe and Secure Ports and Impact on Business</li> </ul>