

TDML 201

Domestic and International Transportation Operations

3 Credits

Community College of Baltimore County

Common Course Outline

Description

TDML 201 – Domestic and International Transportation Operations: is a course in which students examine the modes of US domestic and world-wide commercial transportation and compare their operating costs, initial investment, timeliness, and relationship to the commercial goods being transported. Particular attention will be paid to the various physical and political implications on trade routes and the benefits and limitations that they impose. It also provides a detailed knowledge of freight movement, safety, third party intermediaries, financing, insurance, contingency planning, and customs regulations.

Pre-requisites: TDML 101 or permission of the program coordinator

Overall Course Objectives

Upon completion of this course, students will be able to:

1. describe the characteristics of various modes of transportation utilized for domestic and international freight transportation;
2. identify strategic planning methods including initial investment requirements for air, sea, and land-based modes of transportation;
3. identify the operating costs of each mode of transportation;
4. develop a comparison of the costs per unit of cargo for each mode of transportation;
5. identify the limitations of each mode of transportation, including geographical penetration, timeliness, physical threats, political impact, and reliability;
6. analyze how geographical forces, weather, labor unrest, terrorism, canal improvements, infrastructure conditions, fluctuating costs, and commodity values impact decisions relating to transportation mode selection;
7. identify the most efficient and economical methods of transporting various freight to include land, sea, air, and rail transportation;
8. discuss the safety concerns and hazardous material management for each mode of transporting goods;
9. explain the role of third-party intermediaries;
10. discuss financial considerations and their impact on freight movement;
11. interpret the ultimate impact of freight disruptions on local and global economies;
12. summarize the importance of insurance coverage and needs in freight transport;
13. compare trends in inter-modal transportation models currently being utilized; and
14. identify the major importing and exporting compliance regulations and requirements.

Major Topics

- I. Freight Transportation Models for Domestic and International Freight Operations
 - a. Inland, Coastal, and Ocean Maritime Operations

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

- b. Air Transportation and Air Patterns
 - c. Land Transportation and Highways and Bridges
 - d. Rail Transportation
 - e. Inter-modal Transportation
- II. Commercial Transportation Decision Making
 - a. Initial Costs and Useful Life
 - b. Operating and Unit Costs
 - c. Cargo Impact on Mode Choice
 - d. Geographical Impact
 - e. Political Impact
- III. Financial Considerations
 - a. International Currency Fluctuations
 - b. Fuel Costs
 - c. Personnel Expenses
- IV. Freight Transportation Safety
 - a. Highway Safety
 - b. Shipboard Safety
 - c. Rail Safety
 - d. Aviation Safety
 - e. Hazardous Materials Requirements
- V. Third Party Intermediaries
 - a. Financing and Letters of Credit
- VI. Freight Disruptions
- VII. Freight Insurance
- VIII. Import and Export Compliance
 - a. US Customs Clearance Process
 - b. Export Administration Regulations (EAR)
 - c. International Traffic in Arms Regulations (ITAR)
- IX. Global Ethics and Diversity

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- three topic related exercises
- one written case study
- three tests
- one research-based paper

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the style selected by their professor.

Date Revised: 2/7/2023

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