

**TRANSPORTATION UNIT INSTRUCTIONS**

**Course**

Foundations of Supply Chain Management

**Objectives**

* Students will examine the 5 modes of transportation
* Students will describe the advantages and disadvantages of each mode of transportation
* Students will analyze the decision factors involved in selecting transportation methods
* Students will describe the different types of freight handling
* Students will calculate various types of transportation problems relating to truck driving, delivery, and maintenance

**TN State CTE Standards**

**Components of Supply Chain Management #13**: Explore the five modes of transportation (truck, train, plane, ship, pipeline) used to move materials by land, air, or sea. Identify at least one carrier or service provider from each of the five modes of transportation. For each mode of transportation, analyze the costs, benefits, and problems associated with that mode of transportation, including environmental impact. List items that are most often transported by each type of transportation. Calculate the cost for various shipments using different shipment methods. Depict a comparison of the costs related to shipment methods using Microsoft Excel.

**Essential Questions**

* Describe the 5 modes of transportation
* What are the advantages and disadvantages for each mode of transportation?
* What factors must companies considering when transporting their goods?
* What are the costs associated with each mode of transportation?
* What is the environmental impact for each mode of transportation?

**Duration**

3 weeks

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| ACTIVITIES | | | | |
| **Assignment** | **Due**  **Date** | **Date Completed** | **Grade** |
| Transportation PPT |  |  |  |
| Glossary: Transportation Unit |  |  |  |
| Activity: Name That State |  |  |  |
| Reading: *Trucking Rises to Meet Unprecedented Challenges During COVID-19 Pandemic* |  |  |  |
| Activity: Advantages and Disadvantages of the 5 Modes of Transportation |  |  |  |
| Activity: Track the Independence |  |  |  |
| Activity: Which Mode of Transportation? |  |  |  |
| Activity: Modes of Transportation Crossword Puzzle |  |  |  |
| Quiz: Modes of Transportation (Quizziz) |  |  |  |
| Project: American Truck Simulator |  |  |  |
| Activity: Test Your Knowledge of Truckload |  |  |  |
| Activity: Transportation Math Worksheet |  |  |  |
| Case Study: Last-Mile Delivery |  |  |  |
| Project: Transportation Scenarios |  |  |  |
| Unit Exam: Transportation |  |  |  |