



ENLIGHTIUM ACADEMY

Ignitia™ Career and Technical Education
Electives

Introduction to Careers in Transportation,
Distribution, and Logistics

Enlightium Academy invites you to open the door to career and college readiness with Career and Technical Education (CTE) courses from Alpha Omega Publications - Ignitia™.

These rigorous, hands-on courses for grades 7-12 promote critical thinking, emphasize problem solving, and encourage students to take responsibility for their own learning. With 24 CTE courses divided into six clusters, these courses put students on practical paths to post-graduate success.

Should you have any questions about the curriculum, please contact support@enlightiumacademy.com or call Enlightium Academy Customer Support at (866) 488-4818 ext. 2017.

If you have questions about technical support or product configuration, please see the information below for Alpha Omega Publications.

Alpha Omega Publications Technical Support

Alpha Omega Publications' technical support is Ignitia™'s full-service technical support system. We exist to promote and preserve our customers' satisfaction. Our services include:

- Technical Support
- Product Configuration and Update Management

Please use the following information to contact Alpha Omega Publications' technical support:

Online:

Access our helpful Technical Support website simply by clicking on the life preserver located in the upper-right corner of any screen in our program!

Telephone:

Toll Free: 1-877-251-6662
Monday –Friday 7 a.m. to 5 p.m. (CT)

COURSE OVERVIEW

Transportation and Distribution Logistics is a course intended to introduce students to the complicated world of commercial transportation. This area of commerce is becoming increasingly complex and sophisticated, with work and career openings available at all levels of education. Most people, however, see only fragments of the big picture.

Transportation is among the most crucial and defining elements of modern commerce. The ability to move people and goods from place to place requires vast investments of technology, and of manpower. Without that investment almost all aspects of modern life would grind to a halt.

Objectives

- Describe the nature and scope of the Transportation, Distribution, and Logistics Career Cluster and the role of transportation, distribution, and logistics in society and the economy.
- Describe the application and use of new and emerging advanced techniques to provide solutions for transportation, distribution, and logistics problems.
- Describe the key operational activities required of successful transportation, distribution, and logistics facilities.
- Identify governmental policies and procedures for transportation, distribution, and logistics facilities.
- Describe transportation, distribution, and logistics employee rights, and responsibilities, and employers' obligations concerning occupational safety and health.
- Describe career opportunities and means to achieve those opportunities in each of the transportation, distribution, and logistics career pathways.
- Understand the strengths and weaknesses of the major modes of transportation, and the technological innovations that are occurring in each area.
- Learn about the role of governmental agencies and their impact on transportation systems.
- Analyze financial data to develop budgets, and determine profitability, cost reduction, and asset utilization.
- Identify the job requirements and aptitude needed to successfully pursue different career pathways in the TDL areas.

INTRODUCTION TO CAREERS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS	UNIT 1: TRANSPORTATION OVERVIEW	
	Assignment Titles	
	1. Course Overview	10. The Regulatory and Competitive Environment for Transportation
	2. Characteristics of Each Transportation Mode	11. Careers in Transportation That Move People
	3. Project: Create a Shipping Plan	12. Project: Understanding Educational Requirements for Specific Jobs
	4. A Brief History of Transportation, Logistics, and the Economic Environment	13. Quiz 2: Transportation of People and the Regulatory Environment
	5. Careers in Transportation	14. Project: Special Project*
	6. Project: A Week in the Life of a Transportation Worker	15. Test
	7. Quiz 1: Modes of Transportation	16. Course Project Part 1: What's Your Niche?*
	8. Mass Transportation	17. Glossary and Credits
	9. Project: FAA Guidelines for Pilots	

INTRODUCTION TO CAREERS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS	UNIT 2: DISTRIBUTION AND WAREHOUSING	
	Assignment Titles	
	1. The Roles of Distribution	9. Managing Distribution Operations
	2. Project: Design a Distribution Center	10. Careers in Distribution Center Management
	3. Warehouse Functions and Facilities Management	11. Project: Interview a Warehouse Employee
	4. Facility Layout and Equipment	12. Quiz 2: Roles and Responsibilities in the Distribution Center
	5. Project: Visit a Warehouse	13. Project: Special Project*
	6. Quiz 1: Inside Distribution Centers and Warehouses	14. Test
	7. Automation in Distribution	15. Course Project Part 2: Your Team*
	8. Project: Create an Advertisement	16. Glossary and Credits

INTRODUCTION TO CAREERS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS	UNIT 3: TRANSPORTATION SYSTEMS, INFRASTRUCTURE PLANNING, MANAGEMENT & REGULATION		
	Assignment Titles		
	1.	History of Transportation Systems in the United States	10. Careers in Transportation Planning and Regulation
	2.	Project: The Pony Express	11. Project: Getting Around Your Community
	3.	History of Transportation Systems in Europe	12. Quiz 2: Modern Transportation Infrastructure Management, Planning, and Regulation
	4.	Project: Early Transportation Systems	13. Project: Special Project*
	5.	History of Transportation in Asia	14. Test
	6.	Quiz 1: History of Transportation Systems	15. Course Project Part 3: Job Descriptions*
	7.	Modern Transportation Infrastructure	16. Glossary and Credits
	8.	Project: Regulated Transportation Industries	
	9.	Transportation Planning and Regulation in the United States	

INTRODUCTION TO CAREERS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS	UNIT 4: LOGISTICS & LOGISTICS SERVICES		
	Assignment Titles		
	1.	Inventory Management	9. Project: United States Army Corps of Engineers: Their Contributions
	2.	Project: Design an Inventory Ordering System for Your Household	10. Careers in Logistics
	3.	Purchasing	11. Project: You: The Logistician
	4.	Reverse Logistics	12. Quiz 2: Outsourced and Military Logistics, and Logistics Careers
	5.	Project: Evaluate a Company's Reverse Logistics Policies	13. Project: Special Project*
	6.	Quiz 1: Logistics Functions (Other than Transportation and Distribution)	14. Test
	7.	Third- and Fourth-Party Logistics	15. Course Project Part 4: Getting the Right People in the Right Seat*
	8.	Logistics in the Military	16. Glossary and Credits

INTRODUCTION TO CAREERS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS	UNIT 5: FUTURE TRENDS IN TRANSPORTATION, DISTRIBUTION & LOGISTICS		
	Assignment Titles		
	1.	Self-Driving Vehicles	9. Increased Supply Chain Visibility
	2.	Project: Getting from Here to There without a Driver	10. Project: The Science Behind the Technology
	3.	Drones	11. The Rebirth of Manufacturing in the USA
	4.	Robots	12. Quiz 2: Impact of Technology (Part 2)
	5.	Project: Robotics in Our Future	13. Project: Special Project*
	6.	Quiz 1: Impact of Technology (Part 1)	14. Test
	7.	Radio Frequency Identification (RFID)	15. Course Project Part 5: Building the Company*
	8.	Project: The Evolution of RFID Technology	16. Glossary and Credits

INTRODUCTION TO CAREERS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS	UNIT 6: COURSE PROJECT, REVIEW, AND EXAM		
	Assignment Titles		
	1.	Course Project Part 6: You're in Business	3. Exam
	2.	Review	

(*) Indicates alternate assignment