



ENLIGHTIUM ACADEMY

Ignitia™ Career and Technical Education
Electives

Careers in Logistics, Planning and
Management Services

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.

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- Technical Support
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Monday –Friday 7 a.m. to 5 p.m. (CT)

COURSE OVERVIEW

This course discusses careers in Logistics Planning and Management Services, and provides students with the history of logistics and recent advances in the field. The history of logistics creates a foundation of knowledge to build our understanding of the social and economic benefits of modern logistics. Modern societies and economic development depend on the ability to transport products from their point of origin to store shelves and then into the hands of consumers. Current trends in logistics favor low-cost methods, safety, technology, sustainability, and regulations to keep the goods flowing from their source to the consumers.

Packaging goods and materials for safe transport begins with knowing what is being handled. Goods that are intended for consumers have different packaging requirements than materials being shipped to manufacturers. Unitization makes it possible to move goods easily inside warehouse and distribution centers and between modes of transportation. Goods are often shipped through a combination of air, land, rail, and sea modes of transportation. When deciding which mode to use, logistics managers consider the location, transportation plan, routing, convenience, security, and costs related to their mode decision.

Managing inventory involves decision making and analysis to ensure the goods and materials flow through the logistics channels and supply chain properly. Inventory is an asset that the business carries to add revenues and profits. Identifying the need for goods and services is the first step in obtaining goods and services. Within the logistics process, many goods and services are obtained through a process of procurement. Space, time, and money are all important factors to consider when managing existing inventories and the need for future inventories.

Decision makers often look for a balance between the speed and the cost to ship goods. Documentation is needed to identify goods, enable tracking, indicate where the goods are from, and where they are being shipped. Liability for goods is common in all modes of shipping. Risk management identifies, analyzes, and evaluates elements of the business that can go wrong. These liabilities can be outside of the company's control, but many can be prevented. Regulatory agencies create rules and regulations that are intended to protect the public from many risks. Risk management considers the potential for risk— insurance is one way to minimize the risk. Everyone who holds a financial interest in the goods, vehicles, and property wants to know they are protected, so they buy insurance.

Regulatory agencies work in cooperation with other agencies to minimize the risks and liabilities for employers and their employees. OSHA advises employers, their staff, labor unions, and industry leaders on what they can do to keep the workplace safe. They also inspect the workplace to ensure the employers are in compliance with OSHA standards. Logistics offers many career opportunities across seven career pathways. Logistics is a high growth industry, and is a stable career choice. There is something for every career-seeker, ability, and experience level.

The objective of this course is to introduce the student to the field of logistics planning and management and to explain the career opportunities that are available in this field.

Objectives

- Apply communication skills with students, parents and other groups to enhance learning and a commitment to learning.
- Demonstrate critical thinking skills while processing logistics management perspectives, warehouse and distribution operations, inventory controls, regulations, and safety procedures.
- Categorize risks to safety, health, and the environment in the logistics industry.
- Demonstrate collaboration skills to enhance professional objectives for the company and the customer.
- Describe the rights and responsibilities that apply to individuals and practitioners within the logistics industry.
- Define professional development requirements to maintain employment and to advance in their chosen career.
- Apply organizational skills and logic to enhance their abilities and aptitudes.
- Demonstrate skills that enhance their understanding of safety in the workplace.

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| CAREERS IN LOGISTICS PLANNING AND MANAGEMENT SERVICES | UNIT 1: PROVIDING AND MANAGING LOGISTICS SERVICES FOR THE COMPANY AND THE CUSTOMER | |
| | Assignment Titles | |
| | 1. Course Overview | 9. Project: Goods and Their Origins |
| | 2. The Role of Transportation, Distribution, and Logistics in Society and the Economy | 10. The Challenges of Transporting Goods |
| | 3. Project: From Origin to Consumer | 11. Making Logistics Easier with Technology |
| | 4. Current Trends in Logistics | 12. Project: Process Improvement |
| | 5. You Are the Future of Logistics | 13. Quiz 2: Logistics and the Supply Chain |
| | 6. Project: Making Goals | 14. Project: Special Project* |
| | 7. Quiz 1: Transportation, Distribution, and Logistics - Then and Now! | 15. Test |
| | 8. Logistics Management and the Supply Chain | 16. Course Project Part 1: Distribution Facility Project* |
| | | 17. Glossary and Credits |

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| CAREERS IN LOGISTICS PLANNING AND MANAGEMENT SERVICES | UNIT 2: LOGISTICS AND SUPPLY CHAIN MANAGEMENT | |
| | Assignment Titles | |
| | 1. Material Handling: Packaging | 9. Distribution is the Center of Activity Within |
| | 2. Project: Consumer Goodies | 10. Project: Where Did You Get That? |
| | 3. Material Handling: Unitization | 11. Pricing |
| | 4. Material Handling: Weights & Measures | 12. Quiz 2: Warehousing, Distribution, and Pricing |
| | 5. Project: The Space Shuttle Endeavor | 13. Project: Special Project* |
| | 6. Quiz 1: Material Handling | 14. Test |
| | 7. Warehousing | 15. Course Project Part 2: Innovation* |
| | 8. Project: Kansas City Smart Port | 16. Glossary and Credits |

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| CAREERS IN LOGISTICS PLANNING AND MANAGEMENT SERVICES | UNIT 3: INVENTORY AND INVENTORY MANAGEMENT | |
| | Assignment Titles | |
| | 1. Inventory | 9. Managing Procurement and Purchasing |
| | 2. Project: Taking Stock (Part 1) | 10. Project: Business Culture |
| | 3. Inventory Management | 11. Optimizing Procurement Practices |
| | 4. Project: Taking Stock (Part 2) | 12. Quiz 2: Procurement and Purchasing |
| | 5. Inventory Accounting | 13. Project: Special Project* |
| | 6. Quiz 1: Inventory Management | 14. Test |
| | 7. Procurement and Purchasing | 15. Course Project Part 3: Inventory Controls* |
| | 8. Project: Colgate's Procurement Process | 16. Glossary and Credits |

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| CAREERS IN LOGISTICS PLANNING AND MANAGEMENT SERVICES | UNIT 4: TRANSPORTATION MANAGEMENT | |
| | Assignment Titles | |
| | 1. Modes of Transportation | 9. Regulating Risk |
| | 2. Project: Mode to Go | 10. Project: Emergency Response |
| | 3. Documentation | 11. Insuring Risk |
| | 4. Project: Importing & Exporting | 12. Quiz 2: Risk Management |
| | 5. Liability | 13. Project: Special Project* |
| | 6. Quiz 1: Transportation, Documentation, and Liability | 14. Test |
| | 7. Managing Transportation Risk | 15. Course Project Part 4: Modes of Transportation* |
| | 8. Project: Risk Management | 16. Glossary and Credits |

| CAREERS IN LOGISTICS PLANNING AND MANAGEMENT SERVICES | UNIT 5: LOGISTICS SAFETY & OPPORTUNITY | |
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| | Assignment Titles | |
| | 1. OSHA Rights & Responsibilities | 9. Available Careers |
| | 2. Project: OSHA's Forms | 10. Project: Creating a Resume |
| | 3. Safety First | 11. Career Credentials |
| | 4. Project: Hazardous Materials | 12. Quiz 2: You are the Future of Logistics! |
| | 5. Working & Safety | 13. Project: Special Project* |
| | 6. Quiz 1: Safety First | 14. Test |
| | 7. Career Goals | 15. Course Project Part 5: Preparation & Prevention* |
| | 8. Project: Personality Traits | 16. Glossary and Credits |

| CAREERS IN LOGISTICS PLANNING AND MANAGEMENT SERVICES | UNIT 6: COURSE PROJECT, REVIEW, AND EXAM | |
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| | Assignment Titles | |
| | 1. Course Project Part 6: Preparing Your Proposal* | 3. Exam |
| | 2. Review | |

(*) Indicates alternate assignment