



Name \_\_\_\_\_  
 Learner ID \_\_\_\_\_  
 School/College/University \_\_\_\_\_

# SAMPLE

## Transportation, Distribution and Logistics

### Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Transportation, Distribution and Logistics Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. \*This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Transportation, Distribution and Logistics	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I or Geometry	Biology	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	<i>**Introduction to the Transportation, Distribution and Logistics Industry</i> <i>** Information Technology Applications</i> <i>**Health, Safety and Security in the Transportation Industry</i> <i>**Transportation, Distribution and Logistics Systems</i> <i>**Technological Systems</i>	<ul style="list-style-type: none"> <li>► Airplane Pilot/Co-Pilot</li> <li>► Air Traffic Controller</li> <li>► Avionics Technician</li> <li>► Cargo and Freight Agent</li> <li>► Customs Inspector</li> <li>► Environmental Manager</li> <li>► Facility Engineer</li> <li>► Industrial Equipment Mechanic</li> <li>► Industrial and Packaging Engineer</li> <li>► International Logistics Specialist</li> <li>► Locomotive Engineer</li> <li>► Marine Captain</li> <li>► Port Manager</li> <li>► Safety Analyst</li> <li>► Storage and Distribution Manager</li> <li>► Transportation Manager</li> <li>► Truck Driver</li> <li>► Urban and Regional Planner</li> <li>► Warehouse Manager</li> </ul>
	10	English/ Language Arts II	Geometry or Algebra II	Chemistry	U.S. History			
	11	English/ Language Arts III	Algebra II or Pre-Calculus or Trigonometry	Physics	<i>Dependent on chosen pathway</i>			
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	Pre-Calculus or Trigonometry or AP Calculus Statistics	AP Science	World Geography or AP History	<i>**Ethics and Legal Issues</i>		
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition English Literature	<i>Dependent on chosen pathway</i>	Chemistry	<i>Dependent on chosen pathway</i>	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.	
	Year 14	Speech/ Oral Communication	<i>Dependent on chosen pathway</i>	Biological Science Physics	<i>Dependent on chosen pathway</i>			
	Year 15		<i>Dependent on chosen pathway</i>					
	Year 16							

\*\*See course descriptions on page 2.



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## Transportation, Distribution and Logistics Course Descriptions

*(Course content may be taught as concepts within other courses.)*

### #1

*Introduction to the Transportation, Distribution and Logistics Industry:* Students will be introduced to the broad array of occupations in the Transportation, Distribution and Logistics Career Cluster by exploring these careers and examining how they match their personal interests and aptitudes. Students will develop personal career plans, practice leadership and teamwork skills, and complete steps to prepare for employment application, interview and employment. Participation in student activities will reinforce these cluster knowledge and skills. This may be taught as a career exploration course in conjunction with other foundation Career Cluster courses.

### #2

*Information Technology Applications:* Students will practice ethical use of technology tools to manage personal schedules and contact information, create memos and notes, prepare simple reports and other business communications, manage computer operations and file storage, and use electronic mail and Internet applications to communicate, search for and access information.

### #3

*Health Safety and Security in the Transportation Industry:* Students will study the major regulatory areas of transportation, distribution and logistics (TDL) as well as related government laws and regulations including hazardous materials management. Students will explain how TDL organizations can promote improved health, safety and environmental performance and demonstrate personal commitment to personnel policies and procedures.

### #4

*Transportation, Distribution and Logistics Systems:* This course focuses on the role and major functions of a TDL organization. Students will learn the major measures used by a TDL organization to manage and improve performance, including cost performance and efficiency; explain the impact of economic, social, and technological changes on a TDL organization; and explain the role of risk management in reducing risk and improving performance. Students will develop skills for managing customer relationships, developing and managing plans and budgets, and developing plans to improve organizational performance.

### #5

*Technological Systems:* Students will study the role and function of necessary transportation-related technological systems, will learn the importance of measuring and managing the reliability and performance of technological systems, evaluate and select technological systems as well as recommend the best systems in terms of utilization and performance. Students will have hands-on experience using equipment and machines used to control electromechanical devices as well as geographic information systems software. Workplace learning experiences will be included.

### #6

*Ethics and Legal Issues:* Students will demonstrate awareness of legal responsibilities for different roles and functions within organizations, recognize differences in ethical and legal responsibilities, apply ethical reasoning to different workplace situations, and identify different strategies for responding to unethical or illegal actions of individuals and organizations.

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