



Facility and Mobile Equipment Maintenance

Career Goal (O*NET Code) : Repairer/Mechanic (Automotive Service, Automotive Body, Rail Car, Ship/Motorboat, Aircraft/Airframe, Electronics) (49-3023), Automotive Specialty Technician (Bus, Truck, Diesel, Bicycle, Glass, Tire) (49-3023), Facility Maintenance Manager (49-1011).

Cluster Overview : The Transportation, Distribution, and Logistics Cluster focuses on careers in the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

SUGGESTED COURSEWORK EXTENDED LEARNING EXPERIENCES

High School		SUGGESTED COURSEWORK		EXTENDED LEARNING EXPERIENCES	
High School	9th	Core Courses:	English I Algebra I Biology	World Geography Languages other than English I Health/PE or Equivalent	Curricular Experiences: SkillsUSA TSA Career Learning Experiences: Career Preparation (Paid/Unpaid) Internships Job Shadowing Service Learning Experiences: Habitat for Humanity Volunteer Centers Community Organizations Tutoring/Mentoring Programs Professional Associations: Alliance of Automobile Manufacturers American National Standards Institute Automotive Service Excellence Automotive Parts & Accessories Association Engine Manufacturers Association Industrial Truck Association Motor & Equipment Manufacturers Association National Automotive Technicians Education Foundation Society of Automotive Engineers Texas Motor Transportation Association
		Career-Related Electives:	Intro to Agricultural Mechanics AND Home Maintenance or Introduction to Transportation Service Careers		
	10th	Core Courses:	English II Geometry Chemistry	World History Languages other than English II Technology Applications	
		Career-Related Electives:	Technology Systems (Modular Based Lab)** or Small Engine Repair I*		
	11th	Core Courses:	English III Algebra II Physics	United States History Communication Applications PE or Equivalent	
		Career-Related Electives:	Automotive Technician I* or Diesel Mechanics I* or Automotive Collision Repair/Refinishing Technology I* or Small Engine Repair II*		
	12th	Core Courses:	English IV Precalculus Environmental Systems	Government/Economics Fine Arts	
		Career-Related Electives:	Automotive Technician II* or Diesel Mechanics II* or Automotive Collision Repair/Refinishing Technology II*		
On-the-Job Training	Automotive Collision Repair Technician		Military Service		
	NOTE: These experiences may be started and/or completed as part of the high school experience.				
Certificates	Alternate Fuels Technician	Automotive Service Excellence (ASE)	Engine Machinist	Career Options: Mechanic Technician	
	Automobile/Light Truck Certification	Certified Auto Glass Repair Technician	I-CAR		
	Automobile Service Consultant	Damage Analysis/Estimating Certification	OSHA CareerSafe		
NOTE: Students may earn all or part of these certificates as part of the high school experience.					
Postsecondary	Associate's Degrees	15 hours General Education Core		Career Options: Supervisor Specialty Technician Master Mechanic Certifications, Licenses & Credentials Automotive Service Excellence (ASE) I-CAR Certification	
		Cluster Foundation			
		Business Computer Applications (BCIS 1X05 OR Micro-Computer Applications (COSC 1X01 OR Introduction to Computers (ITSC 1X01)			
		OSHA Regulations General Industry (OSHT 2X01 OR Introduction to Safety and Health (OSHT 1X01)			
		Principles of Management (BMGT 1X03 OR Supervision (BMGT 1X01) OR Problem Solving and Decision-Making (BMGT 1X03)			
		Human Relations (HRPO 1X11) OR Communication Skills for Managers (BMGT 1X45) OR Customer Relations (MRKG 1X01)			
		Introduction to Business Logistics (LMGT 1X19) OR Logistics (INMT 1X36)			
		Introduction to Materials Handling (LMGT 1X21)			
		Warehouse and Distribution Management (LMGT 1X25)			
		Business Ethics (BMGT 1X41)			
Practicum OR Internship (BMGT OR LMGT)					
Information and Project Management (BMGT 1X09)					
Quality Assurance and Quality Control (EPCT 1X51)					
POS Specific Courses					
Auto Parts Counter Sales (VHPA 1X41)					
Auto Parts Management (VHPA 2X31)					
Automotive Service Consultant (AUMT 2X10)					
Auto Parts Nomenclature (VHPA 1X01)					
Automotive Electronic Controls (AUMT 2X11)					
Automotive Engine Repair (AUMT 1X19)					
Introduction and Theory of Automotive Technology (AUMT 1X01)					
Diesel Engine I (DEMR 1X06)					
Automotive Electrical Systems (AUMT 1X07)					
Electronic Controls (DEMR 2X32)					
Automotive Brake Systems (AUMT 1X10)					
Auto Body Welding (ABDR 1X07)					
Diesel Engine Testing and Repair I (DEMR 1X10)					
Basic Metal Repair (ABDR 1X19)					
Advanced Diesel Tune-Up and Troubleshooting (DEMR 2X34)					
Basic Refinishing (ABDR 1X31)					
Major Collision Repair and Panel Replacement (ABDR 2X41)					
Bachelor's Degrees	Accounting	Engineering	Career Options: Industrial Engineer Manager		
	Business Management	International Business			
Graduate Degrees	Aerospace Engineering	Career Options: Research and Development Contracting Instructor/Professor			
	Business Management				
	Engineering				

*May substitute for the required credit for Physical Education
 **Satisfies the required credit for Technology Applications
 ***May substitute for the required credit for Health Education

Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses, if possible.

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2007. All plans should meet high school graduation requirements as well as college entrance requirements. Students may select other elective courses for personal enrichment purposes.