

Transportation Technology/Auto

Level II Unit Outline

Unit 1: Safety in the Shop

- Identify safety concerns in the shop.
- Protective clothing/equipment- Safety glasses, boots, pants, gloves etc.
- Identify safety equipment i.e., fire extinguishers, eye wash etc.
- Demonstrate first aid procedures.
- OSHA
- Tool safety
 - Hand tool safety
 - Power tool safety
- Shop equipment safety
- Spills, Blood Borne Pathogens (BBP's)
- Around the vehicle safety
- Hazards in the work place

Unit 2: Steering

- Identify steering column concerns and components
- Identify, inspect and perform components of steering units
- Inspect, align, and lubricate steering linkage

Unit 3: Suspension

- Front axle components, concerns, and repair
- Axle aligning devices and tandem suspension components and repair
- Air suspension pressure and ride-ability concerns and repairs

Unit 4: Heating, Ventilation, & Air Conditioning

- A/C systems diagnosis and repair
- Refrigeration system component diagnosis and repair
- Heating, ventilation and engine cooling systems diagnosis and repair
- Operating systems and related controls diagnosis and repair
- Refrigerant recovery, recycling, and handling

Unit 5: Drive Train

- Clutch diagnosis and repair
- Transmission diagnosis and repair
- Driveshaft and universal joint diagnosis and repair
- Drive axle diagnosis and repair

Unit 6: Automotive Service Lubrication

- Grease fitting locations and grease application
- Gasket check/leak detection
- Wheel bearing service/packing
- Axle bearing service/lubrication

Unit 7: Career & Technology 9.2 Career Awareness, Exploration and Preparation

- Students will identify career goals and determine necessary steps for attainment.
- Students will modify their personalized student learning plans to support career goals.
- Students will update their professional portfolios, update resumes and cover letters.

Transportation Technology/Auto
New Jersey Student Learning Standards (NJSLS)

NJ Learning Standards: CTE.9.3

CONTENT AREA:	9.3 CAREER AND TECHNICAL EDUCATION
TRANSPORTATION, DISTRIBUTION & LOGISTICS CAREER CLUSTER[®]	
Number	Standard Statement
<i>By the end of Grade 12, Career and Technical Education Program completers should be able to:</i>	
CAREER CLUSTER[®]:	TRANSPORTATION, DISTRIBUTION & LOGISTICS (TD)
PATHWAY:	SALES & SERVICE (TD-SAL)
9.3.12.TD-SAL.1	Analyze the ongoing performance of transportation, logistics and distribution-related sales and service operations.
9.3.12.TD-SAL.2	Demonstrate the use of sales and ongoing service of products and services that are transportation related to promote development of existing and future clients and customers.