



The following programs of study are available within the Transportation, Distribution and Logistics cluster.

- Facility and Mobile Equipment Maintenance
- Health, Safety and Environmental Management
- Logistics Planning and Management Services
- Sales and Service
- Transportation Operations
- Transportation Systems/Infrastructure Planning, Management and Regulation

**9610CT**

*Formerly Introduction to Automotive Technology*

**Energy, Power, and Transportation Systems**

- ⇒ *Grade Placement . . . . . 10-12*
- ⇒ *Credit . . . . . 1/2 Unit*
- ⇒ *Prerequisite . . . . . None*

This semester course will identify entry-level skills in the automotive industry while exploring individual employability. Emphasis is on various safety/ethical concepts and skills associated with the automotive services industry. Topics will include industry safety standards, identification and use of tools, and understanding of major automotive components and maintenance. Classroom instruction will be enhanced by limited shop demonstration.

**9612CT**

*Formerly Automotive Technician I*

**Automotive Technology**

- ⇒ *Grade Placement . . . . . 11-12*
- ⇒ *Credit . . . . . 2 Units*
- ⇒ *Prerequisite . . . . . Approval Process*
- ⇒ *Recommended Prereq . . . . Energy, Power, and Transportation Systems*
- ⇒ *Seniors will be accepted if space is available*

This sequential two-year program is designed to train students through classroom instruction, interactive computer application, and lab/task experiences. Automotive students will be taught basic fundamentals and operation of all major automotive systems. Students will demonstrate knowledge of the concepts and skills related to the following NATEF certified automotive areas: (1) Brakes, (2) Steering and Suspension, (3) Electrical and Electronic Systems, and (4) Engine Performance. Special emphasis is placed on professional work ethics and safety.

**5662CT**

**CTED Automotive Technology, Career and Technology Education for Students with Disabilities**

- ⇒ *Grade Placement . . . . . 9-12*
- ⇒ *Credit . . . . . 2 Units*
- ⇒ *Prerequisite . . . . . Recommendation of ARD Committee*

This program provides automotive repair training for special needs students through classroom instruction, interactive computer application, and lab/task experiences. Automotive students will be taught basic fundamentals and operation of all major automotive systems. Special emphasis is placed on professional work ethics and safety. This course will be offered at Klein High School.

**9614CT**

*Formerly Automotive Technician II*

**Advanced Automotive Technology**

- ⇒ *Grade Placement . . . . . 12*
- ⇒ *Credit . . . . . 2 Units*
- ⇒ *Prerequisite . . . . . Automotive Technology and Approval Process*
- ⇒ *Past Prereq . . . . . Automotive Technician I and Approval Process*

This course is a continuation of Automotive Technology and is designed to train students through classroom instruction, interactive computer application, and lab/task experiences. Automotive students will be taught basic fundamentals and operation of all major automotive systems. Students will demonstrate knowledge of the concepts and skills related to the following NATEF certified automotive areas: (1) Brakes, (2) Steering and Suspension, (3) Electrical and Electronic Systems, and (4) Engine Performance. Special emphasis is placed on professional work ethics and safety.

**9672CT**

*Formerly Small Engine Repair I*

**Small Engine Technology**

- ⇒ *Grade Placement . . . . . 10-12*
- ⇒ *Credit . . . . . 2 Units*
- ⇒ *Prerequisite . . . . . None*

This two year program is designed to provide training for entry-level employment in the air and liquid cooled engine technology industry. Skills developed include knowledge of the function, limited diagnosis and service of the systems and components of all types of lawn care equipment and irrigation engines. Instruction consists of repairing and servicing cooling systems, air cleaners, fuel systems, lubricating systems, and starter/ignition systems. In addition, students will receive instruction in safety, academic, leadership skills and career opportunities. This course is offered at Klein and Klein Oak High schools.

**9674CT**

*Formerly Small Engine Repair II*

**Advanced Small Engine Technology**

- ⇒ *Grade Placement . . . . . 11-12*
- ⇒ *Credit . . . . . 2 Units*
- ⇒ *Prerequisite . . . . . Small Engine Technology and Approval Process*
- ⇒ *Past Prereq . . . . . Small Engine Repair I and Approval Process*

This is the final course of the two year program in small gas engines. Instruction will include advanced knowledge of the function, diagnosis, and service of the systems and components of all types of lawn equipment, motorcycle, marine engines, and irrigation engines. This course is designed to provide advanced training for employment in the small engine technology industry. Instruction includes the repair and service of cooling systems, fuel systems, lubrication systems, electrical/ignition systems, and mechanical systems. In addition, the student will receive instruction in safety, academic, leadership skills and career opportunities. This course is offered at Klein and Klein Oak High schools.

**I (1 hr-5626CT), (2 hr-5624CT); II (1 hr-5630CT) (2 hr-5628CT)**

**CTED Small Engine Technology, Advanced Small Engine Technology, Career and Technical Education for Students with Disabilities**

- ⇒ *Grade Placement . . . . . 9-12*
- ⇒ *Credit . . . . . 1-2 Units per year*
- ⇒ *Prerequisite . . . . . Recommendation of ARD Committee*

This program provides students with employment skills that are transferable and immediately useful. Instructional areas include small engine repair, engine tune-up, minor automotive maintenance and welding. Classes meet for two periods or one period each school day at Klein High School and one period each day at Klein Oak High School. This course may be taken for more than one year - up to four years.

**I (2hr 9677CT) ( 3 hr-9676CT) II (2hr 9679CT) (3hr 9678CT)**

## **Career Preparation I, II**

- ⇒ ***Grade Placement . . . . . 11-12***
- ⇒ ***Credit . . . . . I 2-3 Units, II 2-3 Units***
- ⇒ ***Prerequisite . . . . . 16 years of age and Approval Process***

A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students work in a skilled occupation relating to communications and media, construction and maintenance, electrical and electronics, industrial and manufacturing, safety and security, metal technology, automotive/transportation or other specialty areas. Safety, entrepreneurship, leadership and career opportunities are included with work ethics and job related study in the classroom. Students must provide their own transportation to their training station. This course is offered at Klein High School.