

Automotive Technician: Part 1

Automotive Systems & Service **Course Code: 8696 (20S)**

In order to develop skills in the automotive industry, students learn safety, tools and equipment, Oxy-Acetylene welding and cutting, automotive systems and service procedures. Students are also introduced to diagnostic strategies.

Chassis, Fundamentals and Service **Course Code: 8698 (30S)**

Students will be able to describe, diagnose and repair braking, steering and suspension systems. Students will develop an understanding of wheel and steering alignment. They will apply the principles to diagnose and align steering systems.

Engine Fundamentals and Service **Course Code: 8697 (30S)**

Students will learn the basic principles of the internal combustion engine, engine components and how those relate to vehicle operation. Students will learn engine service, repair and diagnostic procedures.

Drive Train Fundamentals and Service **Course Code: 8699 (30S)**

This course is designed so that students will develop an understanding of the different drive train configurations and their components. Students will be able to diagnose and repair a variety of drive train components.

Automotive Technician: Part 2

Electrical Fundamentals & Service **Course Code: 8700 (40S)**

Upon completion of this course, students will understand the basic principles of electricity and electronics as they relate to automotive systems. Students will be able to diagnose, service and repair automotive electrical circuits and components.

Advanced Mechanical Systems **Course Code: 8701 (40S)**

Students' knowledge in electrical systems will be further enhanced by learning the principles of ignition, control and communication systems. Students will apply proper diagnostic, service and repair procedures.

Advanced Electrical Systems **Course Code: 8702 (40S)**

This course focuses on engine management and emission systems, hybrid systems, as well as metal inert gas (MIG) welding. Students will learn to diagnose, service and repair engine management and emission systems by using electronic diagnostic equipment.

Applied Automotive Technologies
Course Code: 8703 (40S)

Students will demonstrate the ability to diagnose and correct concerns and to complete vehicle repairs to industry standards