

Virginia Western Community College

AUT 126

Auto Fuel and Ignition Systems

Prerequisites

AUT 241

Course Description

Studies automobile ignition and fuel systems, their functions in operation of engine. Includes carburetors, fuel pumps, ignition systems, troubleshooting, engine test and adjustment, tune-up.

Semester Credits: 5 Lecture Hours: 2 Lab/Clinical/Internship Hours: 6

Required Materials

Textbook:

Fundamentals of Automotive Technology, Principles, and Practice, 3rd Edition, ISBN: 978-1-284-23035-2

Other Required Materials:

- Safety Glasses
- Closed-toe shoes
- Publisher's online material
- ASE Online Prep Tests

Course Outcomes

At the completion of this course, the student should be able to:

- Explain & discuss gasoline and diesel operation
- Demonstrate proper and effective use of scan tools and other diagnostic equipment.
- Discuss and identify components used in modern fuel and ignition systems.
- Demonstrate basic engine troubleshooting.
- List and describe the various components of the emission control systems.
- Repair and/or replace parts in fuel and ignition systems.
- Perform routine tune-up and maintenance services.

Notes to Instructors

- Practical exam is given on week 16.
- If schedule allows, ASE test preparation quiz is helpful to students in determining future certification options.