

Automotive Workshops

First Year

Chapter-1 (The Automobile) (1-2) Week

- ☐ Parts, assemblies, and systems
- ☐ Frame, body, and chassis
- ☐ Engine
- ☐ Computer system
- ☐ Fuel system
- ☐ Electrical system

Chapter-2 (Automotive Careers and ASE Certification) (3-4) Week

- ☐ The automotive technician
- ☐ Preparing for a career in automotive technology
- ☐ ASE certification
- ☐ Entrepreneurship

Chapter-3 (Basic Hand Tools) (5-7) Week

- ☐ Tool rules
- ☐ Tool storage
- ☐ Wrenches
- ☐ Screwdrivers
- ☐ Pliers
- ☐ Hammers
- ☐ Chisels and punches
- ☐ Files
- ☐ Saws

- ☐ Holding tools
- ☐ Cleaning tools
- ☐ Probe and pickup tools
- ☐ Pry bars

Chapter-4 (Power Tools and Equipment) (8-9) Week

- ☐ Compressed-air system
- ☐ Air tools
- ☐ Electric tools
- ☐ Hydraulic tools
- ☐ Shop equipment

Chapter-5 (The Auto Shop and Safety) (10-11) Week

- ☐ Auto shop layout
- ☐ Shop safety
- ☐ Types of accidents
- ☐ General safety rules

Chapter-6 (Automotive Measurement and Math) (12-14) Week

- ☐ Measuring systems
- ☐ Measuring tools
- ☐ Other measurements and measuring tools
- ☐ Using basic mathematics

Chapter-7 (Using Service Information) (15) Week

- ☐ Service manuals
- ☐ Using a service manual
- ☐ Service publications
- ☐ Computerized service data

Chapter-8 (Fasteners, Gaskets, Seals, and Sealants) (16-19) Week

- ☐ Fasteners

- ☐ Washers
- ☐ Machine screws
- ☐ Sheet metal screws
- ☐ Nonthreaded fasteners
- ☐ Torquing bolts and nuts
- ☐ Thread repairs
- ☐ Removing damaged fasteners
- ☐ Gaskets and seals

Chapter-9 (Vehicle Maintenance, Fluid Service, and Recycling) (20-23) Week

- ☐ Lubrication service
- ☐ Vehicle maintenance
- ☐ Fluid service
- ☐ Filter service
- ☐ Chassis lubrication
- ☐ Service Intervals
- ☐ General inspection and problem location
- ☐ Recycling and disposal of auto shop wastes