

Auto 80 Credit By Exam Study Guide

Based on Fall 2014 Course Outline

- 1) Automotive Background and Overview
 - a) Careers in the Automotive Service Industry
 - b) Starting a Career in the Automotive Industry
 - c) Working as a Professional Service Technician
 - d) Technician Certification
- 2) Shop Fundamentals
 - a) Shop Safety
 - b) Environmental and Hazardous Materials
 - c) Fasteners and Thread Repair
 - d) Hand Tools
 - e) Power Tools and Shop Equipment
 - f) Measuring Systems and Tools - English and Metric
 - g) Service Information
- 3) Engine Fundamentals
 - a) Vehicle Identification and Emission Ratings
 - b) Gasoline Engine Operation
 - c) Diesel Engine Operation
 - d) Engine Lubrication and Cooling Systems
 - e) Under-Hood Inspection
 - f) Vehicle Lifting and Hoisting
 - g) Lube-Oil and Filter Service
- 4) Electrical Fundamentals
 - a) Electrical Circuits
 - b) Circuit Testers and Digital Meters
 - c) Starting and Charging Systems
- 5) Electronic Accessories
 - a) Dash Warning Lights and Driver Information Systems
 - b) Lighting Systems
 - c) Safety Belts and Airbag Systems
 - d) Heating and Air Conditioning Systems
- 6) Electronics, Performance and Emissions
 - a) Gasoline and Alternative Fuels
 - b) Computers and Sensors
 - c) Ignition System
 - d) Fuel-Injection Systems
 - e) Emission Control Devices
 - f) Hybrid Electric Vehicles
 - g) Scan Tools and Diagnostic Procedures

- 7) Brakes and Inspection
 - a) Tires and Wheels
 - b) Brakes and Antilock Braking Systems
 - c) Suspension and Steering Systems
- 8) Drive Line
 - a) Manual Transmissions/Transaxles
 - b) Automatic Transmissions and Transaxles