

AUTOMOTIVE TECHNOLOGY: MANUFACTURE SPECIALTY (CERT)

BCOT 247	Managerial Business Communications	3.0
BCOT 148	Effective Business Presentations	3.0

CERTIFICATE OF ACHIEVEMENT

The Manufacture Specialty Technician Certificate option prepares students for employment as an entry-level automotive technician in a new car dealership. Through courses focusing on the mechanical areas of the vehicles, including basics in engines, suspension, and brakes, students learn how to use specialty equipment and hand tools found in service and repair facilities of a new car dealership. Core topics include maintenance and service, engine operation, transmission service and repair, and suspension and brakes diagnosis and repair. Design, function, and operation of all these systems is also included in the certificate. Graduates are employed specialized technicians, general service technicians, quick service technicians, tire and brake technicians, apprentice technicians, in new car dealerships. Cognitive ability and hand-eye coordination are recommended for those entering the program.

Program Student Learning Outcomes

- Demonstrate safe practices when working on all types of vehicles.
- Analyze service information in order to diagnose and repair vehicle faults.
- Practice repairing faults related to engine repair, automatic transmission/transaxle, manual drivetrain and axle, suspension and steering, brakes, electrical/electronics, HVAC, and engine performance.

Program Requirements

Code Number	Course Title	Units
Required Courses		
AUTO 151	Automotive Alignment Brake and Suspension	6.5
AUTO 161	Automotive Electricity	7.0
AUTO 111	Automotive Engines	4.0
AUTO 121	Drivetrain Transmissions and Axles	6.5
AUTO 181	Electronic Engine Management Systems-Corporate	6.5
AUTO 179	Automotive Air Conditioning	4.0
AUTO 173	Automotive Technology Work Experience Education (Students must repeat this course for 12 units) ¹	12.0
Total Units		46.5

¹ This Course must be repeated four times. AUTO 100 can substitute (3) units of AUTO 73

Recommended Electives

Code Number	Course Title	Units
WELD 100	Welding Fundamentals	2.5
MTT 100	Machine Tool Introduction	2.0