

ADVANCED AUTOMOTIVE CHASSIS SPECIALIST CERTIFICATE OF COMPLETION

This certificate program prepares students with the skills and knowledge necessary to perform diagnosis and repair in the automotive shop environment. This program includes coursework that is essential for entry-level positions and enhances the skills and knowledge base of those who are seeking career progression within the automotive industry. Completing this certificate program prepares students to pass ASE certification tests in the area of brakes, suspension, electrical systems, manual transmissions, and automatic transmissions.

Required Courses

| Course Number | Course Name | Hours |
|----------------------|-------------------------------------|--------------|
| AUT 544 | Manual Transmission/Power Trains | 119 |
| AUT 545 | Automatic Transmission/Power Trains | 136 |

Total hours

255

Program Level Student Learning Outcomes Required:

1. Locate service information from available sources, determine specifications, locate procedures, determine parts and labor charges and accurately complete a repair order on chassis, transmission, and transaxles.
2. Describe the theory and operation of automotive brakes, chassis, transmissions, and drivetrain.
3. Demonstrate competency in service and repair by being able to test, adjust, diagnose, repair, calibrate, and validate repairs on a variety of chassis, braking systems, drivetrains, and transmissions.
4. Demonstrate knowledge of safe working habits in an automotive repair facility for removing sub frames, transmissions, and differentials.