

AUTOMOTIVE TRANSMISSION AND POWERTRAIN CERTIFICATE

12 Semester Credit Hours; Curriculum: 0011

This certificate exposes students to the operational principles and theory of automatic and manual transmissions and provides opportunities for students to demonstrate the detailed operation and services of hydraulics and internal components. Emphasis is placed on repair and troubleshooting of internal power flow, torque converter, clutch assembly, drive axle, and front/rear wheel drive transmissions. This certificate is for students seeking entry-level careers in automotive technology or for individuals seeking to learn additional automotive systems to advance their skills and career. This certificate can be completed in one semester.

Code	Title	Hours
Courses for a Certificate		
ATA 102	Introduction To Automotive Technology	4
ATA 206	Clutches, Transmissions, and Differentials	4
ATA 208	Automatic Transmissions	4
Total Hours		12

Program Learning Outcomes:

1. Implement safe work habits in automotive technology.
2. Perform automotive diagnostics and repairs in an orderly and clean process.
3. Demonstrate the use and care of basic automotive tools and equipment.
4. Identify powertrain and driveline components.
5. Perform measurements using micrometers, dial-indicators, and hydraulic pressure gauges.