

AUTOMOTIVE TECHNOLOGY II, CERTIFICATE OF COMPETENCY (AUTC)

AUT 200	Automotive Automatic Transmission/Transaxle	4
AUT 123	Power Train Controls	2
Total Hours		21

Career

Effective: Fall 2002

This certificate is designed to prepare the student for above entry-level positions in the automotive service industry. The Certificate of Competency in Automotive Technology II will be awarded upon successful completion of the competencies outlined.

Program Outcomes

Upon successful completion of this program, students should be able to:

- Define OBD (On-Board Diagnostics).
- Utilize testing tools to retrieve malfunction codes from the computer system.
- Identify importance of emission controls and emission control procedures.
- Test input sensors and actuator sensors.
- Identify EGR (Exhaust, Gas and Recirculation) Systems.
- Measure, assemble and install new parts as required.
- Differentiate between 4-wheel drive and all wheels drive vehicles.
- Service 4-wheel drive and all wheels drive vehicles.
- Identify hydraulic systems.
- Remove, overhaul and reinstall transmission/transaxle in vehicles.
- Restore units back to manufacturer's specifications.
- Demonstrate using two or more O2 sensors.
- Solve case studies of vehicle engine parts and malfunctions.
- Utilize AC and DC test instruments.
- Recognize delayed lighting and running lamps.
- Install and repair automatic locks, security and anti-theft devices.
- Install and repair radios and speakers systems.
- Replace and repair electronic heat grids on rear windows.
- Utilize automatic vehicle leveling systems.

Curriculum

The College will award a certificate of competency to students who complete an approved credit-bearing career program that requires less than 30 credits. General education courses may not be required for programs that have less than 30 credits. The student must have a cumulative GPA of 2.0 or higher. At least six (6) credits, or 50% of the total credits required, whichever is greater, must be completed at Delaware County Community College.

Code	Title	Hours
Required Courses		
AUT 121	Engine Performance	3
AUT 201	Automotive Chassis and Security Systems	2
AUT 150	Air Conditioning	2
AUT 151	Ignition Systems	2
AUT 152	Computer and Emissions Systems	3
AUT 153	Automotive Manual Transmission/Transaxle and Chassis	3