

# AUTOMOTIVE TECHNOLOGY II, CERTIFICATE OF COMPETENCY (AUTC)

AUT 123	Power Train Controls	2
<b>Total Hours</b>		<b>21</b>

## 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 credit hours must be in courses that are awarded grade points.

Code	Title	Hours
<b>Required Courses</b>		
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
AUT 200	Automotive Automatic Transmission/Transaxle	4