

# AUTOMOTIVE TECHNICIAN



Two-Year Technical Diploma  
32-404-2

Automotive Service Technicians diagnose and repair performance problems in cars. They also perform factory recommended maintenance procedures on new cars and trucks. The Blackhawk Technical College Automotive Technician Program is an Automotive Service Excellence (ASE) Certified two-year program aimed at preparing the student for passing ASE exams as the requisite professional experience is obtained. The program is designed to increase knowledge and skills in the areas of diagnostic testing, use of hand and machine tools, automotive parts, service references, computerized equipment and other technical equipment on ever more complex automobiles. Students are taught through practical shop and classroom experiences.

## Program Outcomes

- Demonstrate professionalism appropriate for the auto service industry.
- Perform diagnosis, service, and repair of automotive internal combustion engines.
- Perform diagnosis, service, and repair of automotive automatic transmission/transaxle systems.
- Perform diagnosis, service, and repair of automotive manual drive train and axles systems.
- Perform diagnosis, service, and repair of automotive steering and suspension systems.
- Perform diagnosis, service, and repair of automotive brake systems.
- Perform diagnosis, service, and repair of automotive electrical/electronic systems.
- Perform diagnosis, service, and repair of automotive heating and air conditioning systems.
- Perform diagnosis, service, and repair of automotive engine performance systems.

## Graduates Have Found Employment As

- Automotive Line Technician
- Automotive Specialty Technician
- Diagnostic Technician
- Service Manager
- Parts Manager
- Automotive Equipment and Part Sales
- Automotive Business Owner/Manager

View the entire course listing (<http://catalog.blackhawk.edu/courses/>).

Semester 1		Credits
404-650	Service Fundamentals 1	1
404-651	Service Fundamentals 2	1
404-652	Brake Service 1	1
404-653	Brake Service 2	1
404-654	Brake Service 3	1
404-655	Brake Service 4	1
404-656	Steering & Suspension 1	1
404-657	Steering & Suspension 2	1
404-658	Steering & Suspension 3	1
404-659	Steering & Suspension 4	1
404-660	Auto Machine Shop	1
404-661	Service Simulation	2
804-315	Trade Math	1
<b>Credits</b>		<b>14</b>
Semester 2		
404-662	Engine Repair 1	1
404-663	Service Management	1
404-664	Engine Repair 2	1
404-665	Engine Repair 3	1

404-666	Engine Repair 4	1
404-667	Drive Train Service 1	1
404-668	Drive Train Service 2	1
404-669	Drive Train Service 3	1
404-670	Heating & Air Conditioning Service 1	1
404-671	Heating & Air Conditioning Service 2	1
404-672	Heating & Air Conditioning Service 3	1
404-673	Heating & Air Conditioning Service 4	1
801-311	Communication	2

**Credits 14**

**Semester 3**

404-674	ASE Certification Review	1
404-675	Electrical Service 1	1
404-676	Electrical Service 2	1
404-677	Electrical Service 3	1
404-678	Electrical Service 4	1
404-679	Electronic Engine Control Fundamentals 1	1
404-680	Electronic Engine Control Fundamentals 2	1
404-681	Electronic Engine Control Fundamentals 3	1
404-682	Electronic Engine Control Fundamentals 4	1
404-683	Electronic Engine Control Diagnosis 1	1
404-684	Electronic Engine Control Diagnosis 2	1
404-685	Emission Control Service and Certification	1

**Credits 12**

**Semester 4**

404-686	Computerized Fuel Systems Service 1	1
404-687	Computerized Fuel Systems Service 2	1
404-688	Engine Performance Diagnosis 1	1
404-689	Engine Performance Diagnosis 2	1
404-690	Engine Performance Diagnosis 3	1
404-691	Engine Performance Diagnosis 4	1
404-696	Electric Vehicle Safety	1
404-697	Electric Vehicle Circuits & Systems	1
404-692	Drive Train/Transaxle Service 1	1
404-693	Drive Train/Transaxle Service 2	1
404-694	Service Internship	2
404-695	Customer Service Fundamentals	2

**Credits 14**

**Total Credits 54**

## General Education Courses Within Program

Code	Title	Credits
801-311	Communication	2
804-315	Trade Math	1