

## Automotive Technology: General Technician Engine, Power Trains Specialist

**Award Type:** Certificate of Achievement

Designed to prepare the student to enter the automotive service profession as a general repair technician with an emphasis on engine and drive train repair.

**The graduate of the Certificate of Achievement in Automotive Technology: General Technician Engine, Power Trains Specialist will:**

- Demonstrate an understanding of the automotive drive train systems.
- Demonstrate the ability to communicate effectively with customers, co-workers and the employer.
- Demonstrate the ability to diagnose problems with the various systems of the automobile using systematic procedures and logical methods.
- Demonstrate the ability to identify what technical specifications are needed, where to find them and how to use them in the course of performing their duties.
- Demonstrate the required mechanical skills and the ability to use the trade tools at a level of proficiency that is expected in the profession.
- Demonstrate the use of the proper procedure for dealing with hazards encountered in the automotive repair work place.
- Demonstrate the ability to perform the all of the NATEF tasks in each of the core courses in the option or certificate.

### Program Requirements

**A major of 30 units is required for the certificate of achievement.**

**Required core courses (24 units):**

Course Number	Course Title	Units
AT 100	Automotive Fundamentals	4.0
AT 133	Automotive Engine Rebuilding	5.0
AT 303	Automotive Electricity	5.0
AT 323	Power Trains	5.0
AT 324	Automatic Transmissions	5.0

**Plus a minimum of 6 units selected from the following:**

Course Number	Course Title	Units
AT 117	Print Reading and Interpretation	3.0
AT 300	Shop Math and Measurement	3.0
AT 306	Auto Air Conditioning Systems	4.0
AT 313	Automotive Brakes	4.0
AT 314	Suspension and Alignment	4.0
AT 334	Automotive Machining 1	4.0
AT 341	Fuel Injection/Turbocharging	5.0
AT 343	Engine Performance/Diagnosis	5.0
AT 344	Emission Control/BAR CAC	5.0
AT 389	Independent Projects in Automotive Technology	1.0 - 3.0 units
AT 399A	Special Topics in Automotive Technology	2.0
AT 370	SkillsUSA	3.0