

# SKILL CERTIFICATE IN AUTOMOTIVE POWER TRAIN SYSTEMS TECHNOLOGY

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Students completing this certificate will acquire skills and knowledge required to perform diagnosis, service and repair of automotive power and drive train systems. These systems include automatic transmissions, manual transmissions, clutch systems and differentials. Upon program completion, it is expected the student will develop employment entry level knowledge and skills necessary for proper diagnosis and repair of automotive automatic transmissions, manual transmissions, clutch systems and differentials.

## Program Outcomes

- Practice safety in the repair and service associated with electrical, hydraulic and mechanical systems.
- Demonstrate abilities to describe components and apply necessary skills for their respective approach to select the proper method to diagnose, test and repair automotive systems.
- Demonstrate proficiency in the use of automotive diagnostic equipment to evaluate system performance and determine needed repairs.

## Career Opportunities

Upon successful completion of this certificate, students will be prepared for employment in the following: automotive automatic and manual transmission disassembly, repair or rebuild an assembly, diagnosis, repair or replacement of clutch assemblies, and the repair and servicing of differentials. This program is designed to meet national certification and training standards (NATEF) for Automotive Service Excellence (ASE) testing and certification category (A2), Automatic Transmissions (A3), Manual Transmissions and Differentials.

## Program Requirements

Code	Title	Units
REQUIRED CERTIFICATE COURSES		
AUTO 130	Introduction to Automotive Technology	3
AUTO 136	Automotive Electrical Systems	4
AUTO 232	Auto Automatic Transmissions	4
AUTO 233	Automotive Power Train Systems	4
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TOTAL		15

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.