

# TRANSMISSION AND POWER TRAIN SPECIALIZATION (Auto Technology)

## DEGREES, CERTIFICATES AND AWARDS

Certificate of Achievement

### DESCRIPTION

The Transmission and Power Train Specialization Certificate of Achievement is designed to prepare students for employment as Automatic Transmission and Power Train Specialists. The program will provide the necessary skills and knowledge through the use of modern tools and equipment to diagnose and repair automatic and manual transmissions using the latest technology applications. In addition students will learn to use electronic diagnostic equipment to troubleshoot electronic transmission units. This program will prepare students for employment in the following fields: transmission specialists, transmission installers, and repair technicians. Upon successful completion of this program, students will be prepared to take Automotive Service Excellence (ASE) exams for Automatic Transmissions (Test A2) and Manual Drive Transmission (Test A3).

### PROGRAM LEARNING OUTCOMES

1. Demonstrate safe operation of transmission hand tools and shop equipment.
2. Identify major transmission shop equipment components, transmission tester dyno, and hydraulic transmission flasher unit.
3. Diagnose major components failures and recommended repairs.
4. Perform typical major components.

### CERTIFICATE OF ACHIEVEMENT PROGRAM

The **Certificate of Achievement** program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

### FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: [www.imperial.edu/students/financial-aid-and-scholarships/](http://www.imperial.edu/students/financial-aid-and-scholarships/)

### CAREER OPPORTUNITIES

Jobs are available with auto repair shops and machine shops. Experienced technicians with leadership ability may advance to shop supervisors, service writers and service managers.

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## CERTIFICATE PROGRAM

### TRANSMISSION AND POWER TRAIN SPECIALIZATION

Twenty (20.0) units required for the certificate.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

#### I. Required courses for the certificate:

AUT	130	Automotive Electronics I	3.0
AUT	135	Automotive Techniques and Applications	3.0
AUT	180	Manual Transmissions and Power Trains	4.0
AUT	220	Mechanical Automatic Transmissions	4.0
AUT	250	Electronic Automatic Transmissions	4.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

**Total Certificate Units** **20.0**