

# AUTOMATIC AND MANUAL TRANSMISSION CERTIFICATE OF ACHIEVEMENT

This certificate prepares students to gain entry-level employment in maintenance and repair of automotive and hybrid vehicle transmissions. Transmission technicians work with some of the most advanced technology in the auto service industry, including computer command control on electronic gear trains, couplings, hydraulic pumps and other transmission components.

Code	Title	Units
<b>Required Courses:</b>		
AUTO 064	Auto/Truck Electrical Systems	4
or HMDT 064	Auto/Truck Electrical Systems	
AUTO 075	Automatic Transmissions and Transaxles	3
AUTO 075L	Automotive Transmissions and Transaxles - Laboratory	1
AUTO 077	Manual Transmissions and Transaxles	3
AUTO 077L	Manual Transmissions and Transaxles - Laboratory	1
AUTO 084	General Automotive Technology	3
AUTO 084L	General Automotive Technology - Laboratory	1
AUTO 090	Engine Repair	3
AUTO 090L	Engine Repair - Laboratory	1
<b>Complete the following or place into a transfer-level MATH course:</b>		<b>0-4</b>
TECALC 087	Technical Calculations	4
<b>Total Units</b>		<b>20-24</b>

*Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.*

***This is a Gainful Employment Program***

## Program Learning Outcomes

**At the completion of this program, students will be able to:**

- Identify auto shop safety practices.
- Explain the utilization of automotive tools.
- Summarize the theory and concepts of automotive powertrain and electrical systems.
- Practice auto shop safety.
- Apply the proper use of hand tools used in automotive powertrain and electrical systems.
- Perform the service and repairs of automotive powertrain and electrical systems.