

UNDER CAR TECHNICIAN - MANUAL TRANSMISSION, CAREER PATHWAY CERTIFICATE

Program Code: CC.UNDERCARTECMAN

The Under Car Technician - Manual Transmission program combines the initial courses of the **Automotive Service Technology AAS** to provide the student with an opportunity to gain entry-level employment. This alternate first-year schedule offers accelerated employment qualification for the student. These courses train the student in the skills necessary to earn certification from Automotive Service Excellence (ASE) in the specified areas of A3, A4, A5, and C1, as described in the ASE Alignment Section. Coursework also qualifies the student to earn American Welding Society (AWS) certification. The National Institute for Automotive Service Excellence requires two years of documented time in trade before testing, and this nine-month program is awarded 4.5 months' equivalency. The AWS requires one year of documented time in trade before testing.

For information contact Dustin Bates, 503-594-3973 or dustinb@clackamas.edu, or the Automotive and Welding Department, 503-594-3047.

Outcomes

Program Outcomes

Upon successful completion of this program, students should be able to:

- practice safety precautions to protect the environment, students, and the vehicle;
- test and repair basic automotive electrical systems;
- diagnose, repair, and service modern automotive brake systems including, anti-locking systems, traction control systems, and stability control systems;
- diagnose, repair, and service modern suspension systems;
- diagnose, repair, and service front and rear wheel drive manual drive train and axle systems.

Requirements

Fall Term		Credits
AM-101	Intro to Automotive Service Technology	2.00
AM-129	Electrical Systems I	5.00
AM-130	Brake Systems	5.00
Credits		12
Winter Term		Credits
AM-131	Suspension Systems	5.00
WLD-102	Introduction to Welding	2.00
Credits		7
Spring Term		Credits
AM-135	Power Transmission Systems	5.00

AM-228	Service Shop Management	4.00
Credits		9
Total Credits		28

ASE Alignment

- AM-130 Brake Systems aligns with ASE A5 Brakes
- AM-131 Suspension Systems aligns with ASE A4 Suspension & Steering
- AM-135 Power Transmission Systems aligns with ASE A3 Manual Drive Train & Axles
- AM-228 Service Shop Management aligns with ASE C1 Automobile Service Consultant

Careers

Career opportunities include:

- manual transmission technician
- front-end and alignment technician
- brake technician
- drive axle specialist
- four-wheel drive service technician
- apprentice technician
- service writer