

# Automotive Technology

Doug Clapper

and

Todd Jones

DISCOVER



SEATTLE COLLEGES

*North · Central · South*

**This is our  
\$23,000,000.00  
fully remodeled  
Automotive  
Technology  
building**





**The Automotive trade has many lucrative job and employment opportunities for those that choose this pathway.**

- Vehicle repair technician
- Sales - parts counter
- Service advisor

## Short, efficient programs

Certificate – 9 months

AAS Degree – 1.5 years

We run our quarters concurrently so there are no summers off.

This helps our students start their career sooner and not interrupt any funding they may be receiving.



# Automobile Technician Shortage



Nation wide there is a shortage of automobile technicians of over **100,000 workers.**

**Certificate starting wage:**  
\$18.00 - \$22.00 per hour

**Degree starting wage:**  
\$22.00 - \$25.00 per hour

**The technician  
that has  
completed:**

2 years of school

+

2-4 years work  
experience

**= \$30.00 - \$55.00  
per hour**





**Our classrooms are clean, large and have downdraft ventilation to help ensure that we are doing everything we can to keep all students, instructors and staff safe.**

**The labs are very large also with the latest technology in lighting and ventilation. All of the lifts have been replaced with new ones.**







**We have the latest alignment machines for the students to learn on so they will be as prepared as possible for entering the automotive industry.**



# We have a state of the art 4-wheel dyno

Traces down drivability issues under a heavy load such as going up a hill or towing.

You can also check for horsepower and torque that is being produced at the wheels.



# Dyno testing an all-wheel drive Subaru



**Dyno testing  
our rear-  
wheel drive  
ford race  
truck, it has  
351ci. engine**



## Equipment for student learning:



1.Brake lathes both on the car and static

2.Newest scan machines

3.Newest lab scopes

4.Tire mounting and balancing machines

5.Brake bleeding machines

6.Critical measuring tools

7.Over \$1,000,000 in special, power and hand tools used in industry



# Scholarships and Grants Available

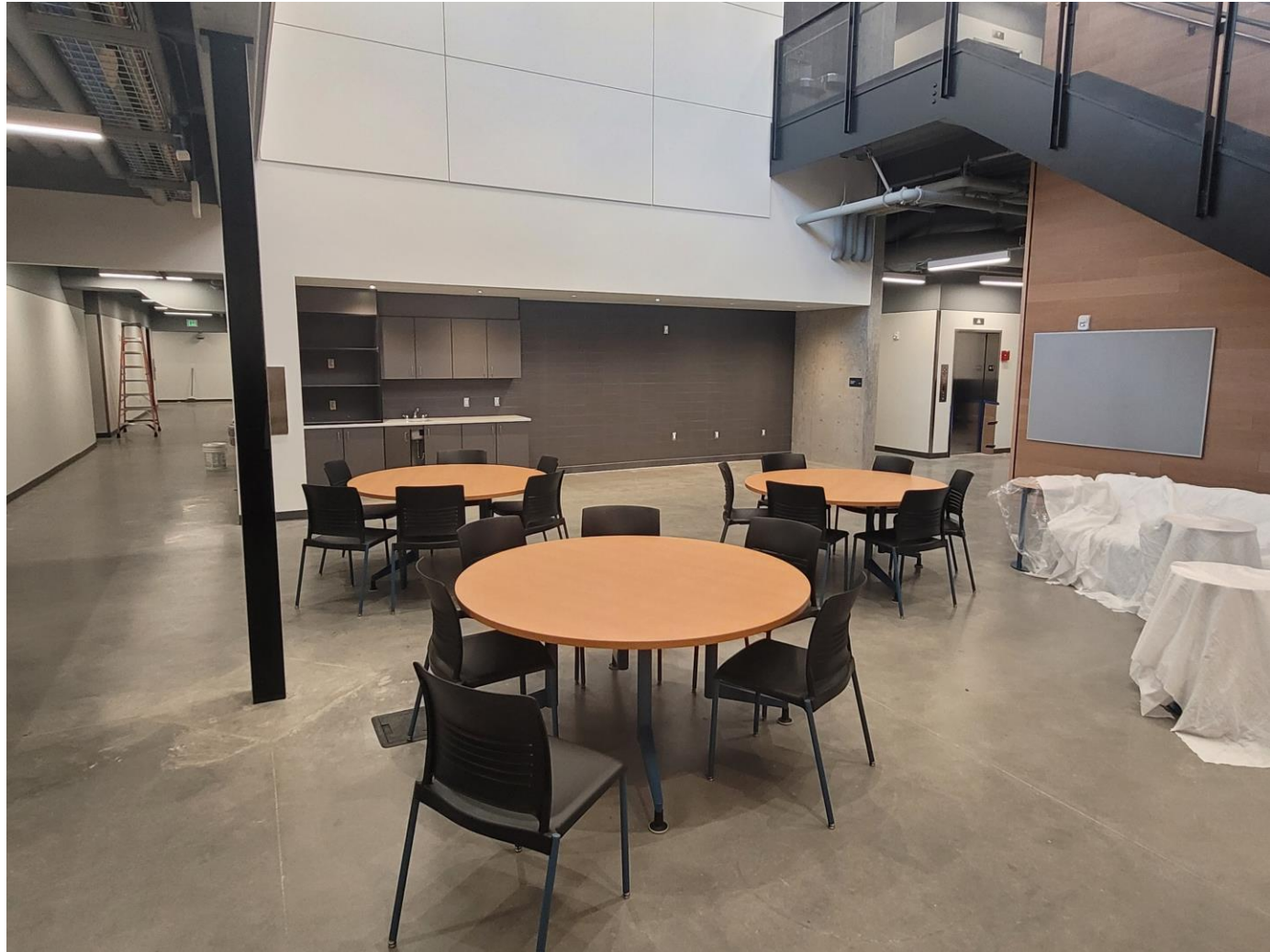
These three students filled out a grant scholarship and it took them about 2 hours to do so.

They all received a toolbox and tools.

We have many more of these stories.



**We have a  
student  
lounge and  
study area**





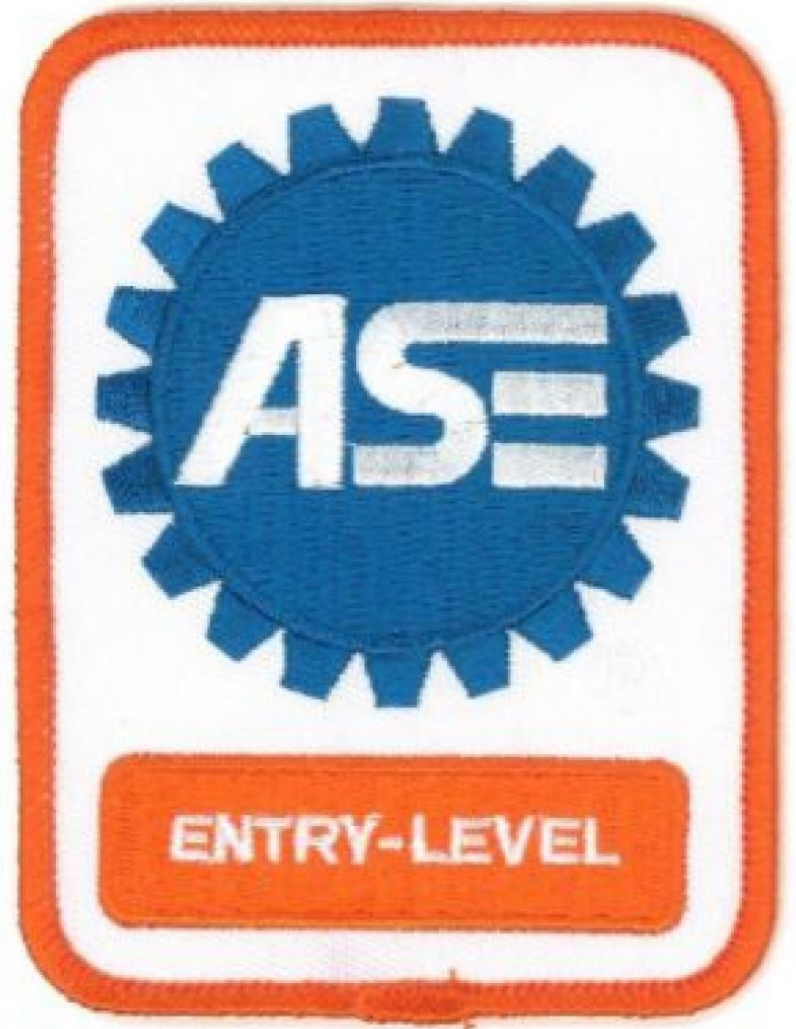
# WHAT DOES A TECHNICIAN NEED TO KNOW TO WORK ON AN AUTOMOBILE?

1. How to use hand and power tools
2. How the mechanical things work
3. How to communicate with the service advisor, parts specialist and customer
4. Understanding computer inputs, outputs and networking
5. Understanding basic hydraulic systems
6. How to diagnose and repair fuel systems
7. How to diagnose and repair ignition systems
8. Understanding electronics and electrical systems
9. How to diagnose and repair HVAC systems
10. How to shake down a car to find what's wrong with steering, brakes, transmissions, engines, suspension etc.
11. A drivers license and a clean driving record so the shops can insure you

# ASE CERTIFICATION CAREER PATH

Available at Prometric Test Centers Only

				
<b>Required Year of Work Experience</b>	NONE	1 Year	2 Years	3 Years
<b>Duration of Certification</b>	2 Years	5 Years	5 Years	5 Years



**1<sup>st</sup> quarter** Intro to automotive technology

**2<sup>nd</sup> quarter** Steering, Suspension and Brakes

**3<sup>rd</sup> quarter** Engines

**4<sup>th</sup> quarter** Advanced electrical and HVAC

**5<sup>th</sup> quarter** Advanced Drivability and Fuel Systems

**6<sup>th</sup> quarter** Transmissions and drive train

**QUESTIONS?**