


PORTLAND COMMUNITY COLLEGE

Automotive Service
Technology

Automotive service repair technology students prepare to enter a workplace that uses advanced technologies to repair vehicles.





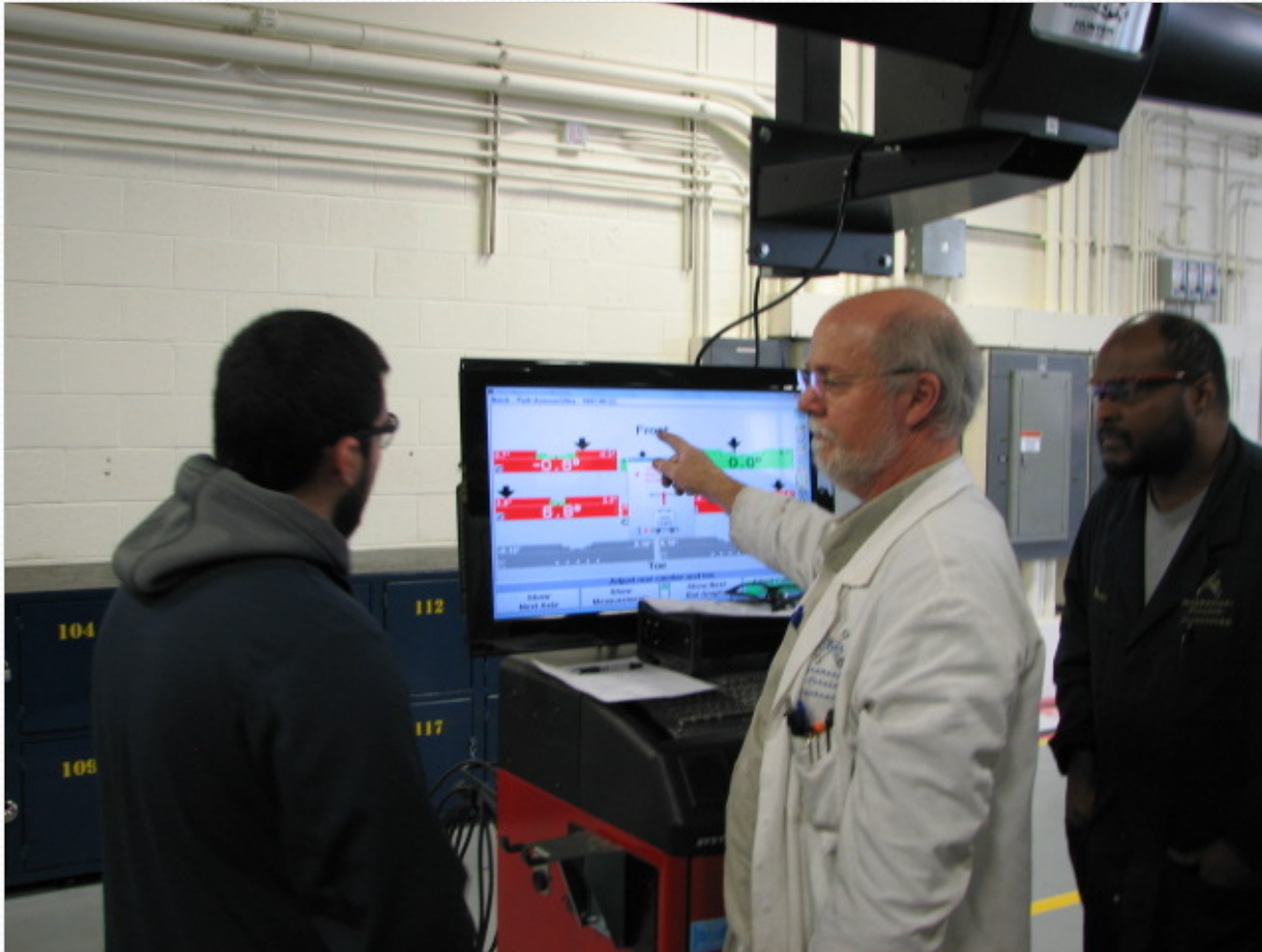
The Automotive Service Technology program's goals focus on preparing students to enter the automotive service and repair industry as an apprentice level technician. Students will learn how to make ethical decisions about repair and service needs for customers, write repair orders, prepare estimates, perform the diagnostics and repair, and communicate recommendations and repairs to customers.



Technicians / Students need to access repair information systems to repair today's advanced vehicles.

Students also use smart phones, lap top computers, and tablets to access service information and course work.

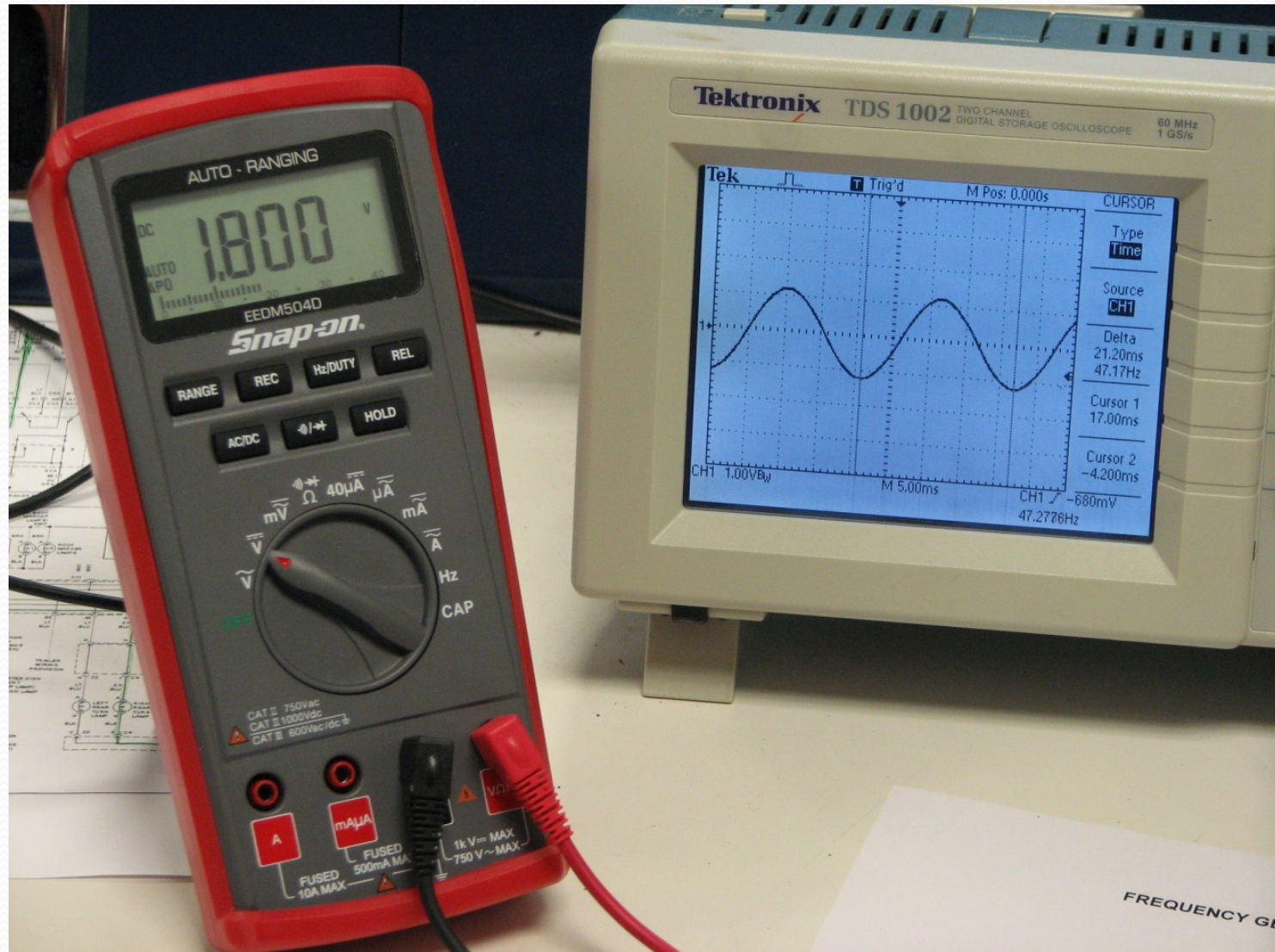




Many repair procedures are computer driven through special equipment and tools. These students are performing a vehicle alignment.

Students using a *Snap-on* Verus scan-tool's lab scope function





Students comparing results between and Oscilloscope and their own DVOM (Digital Volt Ohm Meter)


Instructor demonstrating MDI (Multiple Diagnostic Interface) wireless module flash programming through on-line service information





Students purchase their own tools, uniform coat, and safety glasses.

Hybrid Vehicle Technology at Portland Community College



In September of 2010 our program was awarded a grant from the Small Business Administration of \$200,000. for development of curriculum in the area of Hybrid Vehicle Repair and Maintenance. This allowed us to invest in equipment, tools, vehicles, training, and curriculum development for hybrid vehicle maintenance and repair. We have been able to offer CEU classes to working technicians and instructors in hybrid technology. We have established our school as a leader in this subject area in the Pacific Northwest.

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Automotive Service Technology



2006 Toyota Prius



DC Volt gauge monitoring power to the inverter. Inductive amp/volt meter monitoring three phase AC power lines to the electric machines.



Full Test Mode. Vehicle Running!

PORTLAND COMMUNITY COLLEGE

Automotive Service Technology



Investing in training today's and tomorrow's technicians.

The Automotive Service Technology program is leading an effort to form a group of community colleges from the northwest who are focused on educating technicians and students on new “green” technologies. This group is known as:

Advanced Vehicle Training Group NW

Mission: Preparing colleges to address the growing technician readiness gap and improving in-service technician continuing education participating through utilization of best practices and industry leading curriculum.



Did you know?

Every \$1 of taxpayer investment yields a return of \$6.80 in benefits. In other words, taxpayers fully recover the cost of the original investment and also receive a return of \$5.80 in addition to every dollar they paid. The average annual internal rate of return for taxpayers is 14.3%.

(Source: AACC, Where the Value Meets the Road: The Economic Impact of Community College, Feb 2014)