

TO: Incoming automotive students – Fall 2024

FROM: Troy Lachance, Professor of Automotive Technology

SUBJECT: Required tools

The following information is indicative of last year's pricing and the cost for student packages should be similar this year.

BOOKS: The Automotive Technology program requires Fundamentals of Automotive Technology from CDX Automotive. **YOU MUST BUY THIS BOOK OR THE ELECTRONIC VERSION THROUGH THE BOOK STORE TO GET THE REQUIRED ONLINE ACCESS CODE.**

FOOTWEAR: Students are also required to wear appropriate leather footwear in the lab area. No sneakers, we highly recommend purchasing steel or composite toe shoes.

TOOLS: Each student entering the Automotive Technology program is required to have a tool chest and a selection of basic tools. You may purchase the tools on your own or wait until you arrive in the fall. We will be having a Tool Day at the beginning of the semester (TBD), and you will be able to order one of the special packages (at a substantial discount) being offered to students from various vendors.

The tools sold by these companies are of good quality and in the past the prices were competitive.

Snap-On: This company gives a good student discount. The college's required tool set, with the KRSC46HPC top chest sold for approximately \$3500, last year. If you are interested in this option, the Snap-On representative will take orders now or at the beginning of the semester. (Sales Rep. Joel Greene)
joel.m.greene@snapon.com 802-355-8010

Gearwrench: Apex Tools offers Gearwrench and Armstrong tools at a discount. The required set last year sold for \$1800 - \$2300, depending on options. (Sales Rep. Alexis Tansill) alexis.tansill@apextoolgroup.com 813-415-7733.

MAC Tools: This company gives the students a good discount. You can sign up for the Student Tech Program (STP) online by email at MAC.StudentTech@sbdinc.com. This vendor does not attend our tool show. Web site: www.mactools.com

Matco Tools: This company may give a student discount. Catalogs are available by calling 1-800-331-2427 or email votech@matcotools.com. You may also order the tools online at www.matcotools.com. ***Register under the votech student to get the best prices.***

Sonic Tools: This is a new vendor for us but they have competitive pricing with lifetime warranty on hand tools. Sales rep is Matthew Pugh, National Education Sales Manager, Retired U.S. Air Force Fighter Aircraft Mechanic, 334-750-8334 matthew.p@sonictoolsusa.com

If you purchase a top chest and roll-a-way, please **do not bring the roll-a-way** to the College as space is limited unless you have permission from the instructor.

I have enclosed a list of basic tools that you must have. This will enable each student to participate fully in lab/shop activities from the beginning of the program.

Where you purchase tools is your choice; however, you are advised that it is economically sound to buy quality brands from reliable dealers and request an educational discount. Try to stay away from the box store brands, as these are more for the do it yourselfer and not for professional technicians.

If you have any questions or concerns, please e-mail me, or call the college and leave your name, telephone number, and good time that you may be reached, and I will attempt to get back to you in a timely manner.

E-mail: tlachance@ccsnh.edu

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WHITE MOUNTAINS COMMUNITY COLLEGE
REQUIRED AUTOMOTIVE TECHNOLOGY TOOL LIST

All tools are recommended size. You do not have to get each tool exactly as described.

PLIERS

Slip joint	7"
Spark plug boot	9"
Needle nose	7"
Channel lock	10"
Electrical service/wire stripping	9"
Straight jaw vise grip	7"
Diagonal cutting	7"

3/8" DRIVE

Ratchet	
Extensions	1 ½" 3" 6" 11"
Universal joint	
Spark plug sockets	13/16" 5/8"
Socket sets	8-21 mm 6 point metric deep 1/4-7/8" 6 point SAE deep
Hex head drivers (Allen)	1/8 -3/8" SAE 4mm-12mm metric
Torx driver set	T15,20, 25, 27, 30, 40, 45, 50, 55

1/4" DRIVE

Ratchet	
Extension	4"
Universal joint	
Socket set	3/16 – 9/16" SAE deep 6 - 14 mm, metric deep

MISC.

Feeler gauge set	steel
Hammer, ball peen	16 oz.
Hammer, plastic	16 oz.
Combination wrench sets	5/16 - 1" SAE 8 - 22 mm, metric
Test light	12 volt (not self-powered)
Tire pressure gauge	
Magnetic pickup tool	telescopic handle
Magnetic parts tray	6" minimum
Inspection mirror	telescopic handle
Wire brush	
Gapping tool	spark plug
Screwdriver set	flat and phillips
Gasket scraper	
Air blow gun	w/fitting type C or T
Punch and chisel set	10 - 12 pieces
Bronze punch set	2 - 3 pieces
Punch/Chisel holder	

Drill bits	with index, 1/16 - 1/2 in.
12-foot tape measure	1/2 in. wide
Spark Tester	for secondary ignition
Valve Core Tool	for tire valve stems
½” drive deep impact sockets	19mm, 21 mm, 22mm
Tool box	Upper chest <u>must</u> be no smaller than approximate dimensions of: 26" W x 12" D x 17" H (approx. 1700 sq. in) We recommend: 42" W x 18" D x 20" H (approx. 5000 sq. in) 45" W maximum toolbox allowed
