

**TO:** Incoming Automotive students – Fall 2023

**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 THROUGH THE BOOK STORE TO GET THE REQUIRED ONLINE ACCESS.**

**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 from these companies are of good quality and in the past the prices have been competitive.

**Snap-On:** This company gives a good student discount. The college's required tool set, with the KRSC46HPC top chest sold for approximately \$3300.33, 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 802-355-8010)

**Gearwrench:** N.H. Bragg offers Gearwrench and Armstrong tools at a discount. The required set last year sold for \$1800 - \$2300, depending on options. (Sales Rep. Jason Proulx, 1-207-942-7357). [jproulx@horizonsolutions.com](mailto:jproulx@horizonsolutions.com) Website: [www.horizonsolutions.com](http://www.horizonsolutions.com)

**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](mailto:MAC.StudentTech@sbdinc.com). The required set last year sold for \$1600 - \$2500, depending on options. Web site: [www.mactools.com](http://www.mactools.com)

**Matco Tools:** This company also gives a student discount. The College's required tool set with MB2311BB Top Box sells for \$2289.68. Catalogs are available by calling 1-800-331-2427 or email [votech@matcotools.com](mailto:votech@matcotools.com). You may also order the tools online at [www.matcotools.com](http://www.matcotools.com). *Register under the votech student to get the best prices.*

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.

I have enclosed a list of basic tools that you must have **no later than October 5**. This will enable each student to participate fully in lab/shop activities from the beginning of the program. **You will need work boots and safety glasses/goggles no later than September 9<sup>th</sup>.**

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.

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**WHITE MOUNTAINS COMMUNITY COLLEGE  
REQUIRED AUTOMOTIVE TECHNOLOGY TOOL LIST**

**PLIERS**

|  |     |
|--|-----|
| Slip joint   | 7"  |
| Spark plug boot  | 9"  |
| Needle nose  | 7"  |
| Channel lock   | 10" |
| Electrical service<br>10, 12, 14, 16, 18, 20, 22 - AWG | 9"  |
| Straight jaw vise grip                                 | 7"  |
| Diagonal cutting                                       | 7"  |

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**3/8" DRIVE**

|                          |  |
|--------------------------|--|
| Ratchet                  |  |
| Extensions               | 1 1/2"<br>3"<br>6"<br>11"                                |
| Universal joint          |  |
| Spark plug sockets       | 13/16"<br>5/8"   |
| Socket sets              | 8-21 mm 6 point metric deep<br>1/4-7/8" 6 point SAE deep |
| Hex head drivers (Allen) | 1/8 -3/8" SAE  |
| Torx driver set          | T20, 25, 27, 30, 40, 45,<br>50, 55                       |

## 1/4" DRIVE

|                 |  |
|-----------------|--|
| Ratchet         |  |
| Extensions      | 2"<br>4"                                       |
| Universal joint |  |
| Socket set      | 3/16 – 1/2" SAE deep<br>6 - 13 mm, metric deep |

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## MISC.

|                         |                                     |
|-------------------------|-------------------------------------|
| Feeler gauge set        | steel                               |
| Hammer, ball peen       | 16 oz.                              |
| Hammer, plastic         | 16 oz.                              |
| Combination wrench sets | 5/16 - 1" SAE<br>10 - 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          |                                     |
| Tire air chuck          | w/fitting type C or T               |
| Air blow gun            | w/fitting type C or T               |
| Punch and chisel set    | 10 - 12 pieces                      |
| Bronze punch set        | 2 - 3 pieces                        |

|                              |  |
|------------------------------|--|
| Striker                      | for torches  |
| Small flashlight             |  |
| Drill bits                   | with index, 1/16 - 1/4 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 <b>must</b> be no smaller than approximate dimensions of: 26" W x 12" D x 17" H (approx. 1700 sq. in)<br><b>We recommend: 42" W x 18" D x 20" H (approx. 5000 sq. in)</b><br>45" W maximum toolbox allowed |

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