

Heavy Equipment Technician Tool List 2020-21

All costs are approximate and are subject to change.

Required Supplies (Needed for first day of class):

- Fabric Face Mask (as a result of COVID-19) \$15
- Safety Boots (CSA Approved, Green Triangle) \$150
- Coveralls \$100
- Welding Gloves \$25
- Safety Glasses (CSA Approved, must be clear lenses – complies with CAN/CSA.794.3) \$15
- Hearing protection (as required in the shop) \$15
- **Access to a computer/laptop** complete with a camera, microphone, and Microsoft Office.
Assiniboine Community College can provide students with a link to download Microsoft Office 365 at no charge
- **Access to the Internet**

Total Cost of Supplies \$320

Required Tools

Approximate cost of the tools is \$2500 - \$2700. Prices may vary depending on where tools are purchased.

The School of Trades holds a **Tool Fair** during the second week of classes where students may purchase their tools from a variety of suppliers at discounted prices. Students are encouraged to wait to purchase tools until this time.

Notes: When choosing metric wrench or socket sets, we recommend sets that include 1 mm graduations throughout the set. Some manufacturers omit specific sizes that are required for certain applications.

Manufacturers offer many options like SAE socket only sets, metric socket only sets and also complete socket sets that include both SAE and metric sockets in the same set. These complete sets may include ratchets, extensions and swivels. How you purchase these items is solely up to you. Please ensure that the sets you choose include most of the recommended socket sizes.

Your tools should be reasonably similar to those described below.

Description	Reference: #
Tool storage chest, should have roll cabinet(recommend big wheels) and optional top chest	1.
<u>Socket set</u> – 3/8" drive, SAE to include: 6-point shallow sockets: 1/4" – 7/8" (11 pieces), 6-point deep sockets: 3/8" – 7/8" (9 pieces), ratchet, 3" and 6" extensions and universal joint	2.
<u>Socket set</u> – 1/2" drive, SAE to include: 12-point shallow sockets: 3/8" – 1 1/4" (14 pieces), ratchet, flex handle, 5" and 10" extensions and universal joint	3.
Sockets, 3/8" drive, Metric 6-point shallow, 6 mm – 24 mm (19 pieces)	4.
Sockets, 1/2" drive, Metric 12-point shallow, 10 mm – 28 mm (19 pieces)	5.
<u>Wrench set</u> – SAE combination, 12-point, 16 piece, 1/4" – 1 1/4"	6.
<u>Wrench set</u> – Metric combination, 12-point, 18 piece, 7 mm – 24 mm	7.
Pliers, 8" combination	8.

Pliers, 6" needle nose	9.
Pliers, 7" diagonal cutting	10.
Locking pliers, 10" (curved jaw with wire cutter)	11.
Pry / aligning bar, 16", rolling head "lady's foot"	12.
Alignment punch, 16- 18"	13.
Hammer, ball-peen, 12 oz	14.
Hammer, ball-peen, 2 lb	15.
Hammer, dead-blow, 2 lb	16.
Carbon scraper, rigid, stiff blade, 1" wide	17.
Adjustable wrench, 12" (300 mm)	18.
Screwdriver set – Should include the following: Standard, slotted (tip size x overall length): ¼" x 3¼" (stubby) Standard, slotted (tip size x overall length): ¼" x 8½" Standard, slotted (tip size x overall length): 5/16" x 10½" Standard, slotted (tip size x overall length): ¾" x 13½" Phillips, (tip size x overall length): #2 x 3¼" (stubby) Phillips, (tip size x overall length): #1 x 6¾" Phillips, (tip size x overall length): #2 x 8¾" Phillips, (tip size x overall length): #3 x 11"	19.
Punch and Chisel Set – Should include the following: Centre punch, 7/16" hex, ¼" point x 6" long Pin punch, 1/8" x 4¾" long Pin punch, 5/32" x 5" long Pin punch, 3/16" x 5¼" long Pin punch, ¼" x 5¾" long Start punch, 1/8" x 4¾" long Start punch, ¼" x 6" long Flat cold chisel, ¾" x 5" long Flat cold chisel, ½" x 6" long Flat cold chisel, ¾" x 7" long	20.
Hex key set – SAE 15 piece, 5/64" – 5/8"	21.
Hex key set – Metric 10 piece, 1.5 mm – 12 mm	22.
Feeler gauge set – 25 blade, 0.0015" – 0.035" / 0.04 mm – 1.00 mm.	23.
Circuit tester (non-powered test light with 12-volt bulb)	24.
O-ring pick / scribe, 9", straight tempered point and a 90° hook	25.
Electrical pliers, with wire stripper / cutter, crimper, and machine screw cutter	26.
Hacksaw, 12"	27.
Plastic/ Rubber handled mill file, 10", single-cut, second-cut	28.
Plastic/ Rubber handled mill file, 10", double-cut, bastard-cut	29.
Combination square, 12" metal	30.
Tape measure, 25' measures in inches and cm	31.
Plastic caliper, 6inch, measures in inches and cm	32.
Tire pressure gauge, dual-head, 10 – 120 psi range	33.
Gloves, solvent resistant Nitrile (for protection against petroleum solvents)	34.
Digital Multi-Meter (DMM). * * <u>Note</u> : Although multi-meters are listed and required, students are advised to discuss features and benefits with their instructors before purchasing this item.	35.

Total cost of supplies and tools = \$2500 - \$3000 for the Heavy Equipment Technician program.

Disclaimer: Assiniboine Community College will not be liable or responsible for promoting any tool company over another. It is the student's responsibility for pricing his/her own tools.