

DMACC ASEP/CAP/ASSET and AUTO MECHANICS TECHNOLOGY PROGRAMS REQUIRED TOOL AND SUPPLY LIST

These tools should be of professional quality and should meet the standards of the automotive industry. Students must have their tools at school when they are attending classes at the college. The tools will be needed by the first week of classes. It is suggested that students insure their tools. DMACC does not insure student tools.

1. Tool box (**must be a roller cart or roller cabinet, not to exceed 24" x 40"**)
2. 1/2" drive socket/ratchet set to include:
 - 7/16" through 1-1/8" SAE sockets
 - 12mm through 36mm metric sockets
 - breaker bar
 - extensions
3. 3/8" drive socket/ratchet set to include:
 - 1/4" through 3/4" SAE sockets
 - 8mm through 19mm metric sockets
 - 9/16" and 5/8" deep plug sockets
 - 13/16" spark plug socket
 - 5/8" spark plug socket
 - extensions
 - universal joint
4. 1/4" drive socket/ratchet set to include:
 - 3/16" through 1/2" SAE sockets
 - 4 mm through 15mm metric sockets
 - nut driver handle
 - extensions
 - universal joint
5. Wrenches to include:
 - 1/4" through 1" combination, SAE
 - 7mm through 22mm combination, metric
 - 3/8" through 5/8" line, SAE
 - 10mm through 18mm line, metric
6. Standard screwdriver set
7. Phillips screwdriver set
8. 24" Pry bar
9. Torx bits/drivers to include:
 - T8 through T60 drive torx bits
 - T8 through T30 screwdriver
10. Chisel & punch set to include 8" brass drift punch

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11. Pliers to include:
 - 7" to 8" needle nose
 - 9-1/4" water pump (slip joint)
 - 7" to 8" diagonal
 - 10" locking pliers
 - 7-1/4" pliers

12. Snap ring locking pliers
 - 10" length opens to 1-1/4"
 - inside and outside True Arc

13. Hammers
 - 16 oz. dead blow
 - 16 oz. ball peen
 - 32 oz. ball peen
 - Brass hammer

14. Brake tools
 - Brake adjusting tool – 8"
 - Brake retainer washer tool, large and small cup
 - Brake spring pliers, remove and replace and stretching

15. Tire crayon
 - Tire pressure gauge, 0 – 100 psi, digital
 - Tire tread depth gauge, 1/32" increments

16. Hex socket set
 - 1/16" through 3/8" hex
 - 1.5mm through 10mm

17. Feeler gauge
 - .0015" – .080"

18. Spark plug gap gauge
 - .035" – .080"

19. 1-1/2" x 3-3/8" heavy duty gasket scraper

20. Plastic scraper

21. 6" wire stripper/crimping tool, 10 to 20 gauge

22. 12-volt test light

23. Blow gun

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24. Air chuck
25. 6" pocket steel ruler
26. Outside Micrometer
 - 0" – 1" (with vernier scale .0001) OR
 - 0mm – 25mm
27. 0" to 1" dial indicator with magnetic base and clamp set with adaptors up to 6"
28. 0" to 6" dial caliper
29. Hacksaw frame with blades listed below
 - 4 – 18TPI blades
 - 4 – 24TPI blades
30. 10" Flat hand file with handle
31. Flash light with batteries
32. Oil filter wrenches (should fit small and large filters)
33. Universal terminal release tool (pick set)
34. Ignition spark tester
35. Terminal test probe adapter set

Examples (*the below kit meets the minimum requirements, others may be purchased*)

- 18001.10-Kit www.jumperkits.com

36. Digital Multimeter (*specs and examples are listed below*)

Specs

- AC/DC voltage up to 600 V minimum
- AC/DC 10A (amps) capable
- Auto ranging preferred
- Volt meter impedance 10 mega ohms minimum

Examples (*the below meters meet the minimum requirements others may be purchased*)

- 22-811 www.radioshack.com
- 82334 www.sears.com
- EM700 www.mactools.com
- MDTECH or DM115 www.matctools.com
- EEDM504D www.snapon.com

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37. Plastic thread pitch gauge
 - Standard and metric
38. Quick disconnect tools
39. Magnetic pick up tool
40. Inspection mirror
41. 12-foot steel measuring tape
42. Safety glasses (not goggles, not tinted, and meets ANSIZ87.1 safety standard)
43. Magnetic parts tray
44. School supplies
 - 4 – 1-1/2” 3-ring binders
 - 12 – #2 pencils
 - 12 – Blue or black ink pens
 - 1 – Highlighter
 - 1 – Clipboard

Optional tools may be purchased as needed.

Updated 04/19/13