

DMACC ASEP/CAP/PACT 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:
 - 12mm through 36mm metric sockets
 - breaker bar
 - extensions
3. 3/8" drive socket/ratchet set to include:
 - 8mm through 19mm metric sockets
 - 9/16" spark plug socket
 - 5/8" spark plug socket
 - 14mm spark plug socket
 - extensions
 - universal joint
4. 1/4" drive socket/ratchet set to include:
 - 4 mm through 15mm metric sockets
 - nut driver handle
 - extensions
 - universal joint
5. Wrenches to include:
 - 7mm through 24mm combination, metric
 - 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
10. Chisel & punch set to include 8" brass drift punch
11. Pliers to include:
 - 7" to 8" needle nose
 - 9-1/4" water pump (slip joint)
 - 7" to 8" diagonal
 - 10" locking pliers

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- 7-1/4" pliers
- 12. Snap ring locking pliers
 - 10" length opens to 1-1/4"
 - inside and outside True Arc
- 13. Hammers
 - 24 or 32oz. dead blow
 - 24 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
 - 1.5mm 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 (incandescent bulb – NO LED – High Impedance)
- 23. Blow gun
- 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"

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- 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 (or rechargeable)
- 32. Oil filter wrenches (should fit small and large filters)
- 34. HEI 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 Fluke 87 is the “recommended” meter. Others meeting the specs listed below will be allowed:

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)*

- EM700 www.mactools.com
- MDTECH or DM115 www.matcotools.com
- EEDM504D www.snapon.com
- 37. Thread pitch gauge
 - Standard and metric
- 38. Quick disconnect tools
- 39. Magnetic pick up tool
- 40. Inspection mirror
- 41. 12-foot (minimum) steel measuring tape (Inch and MM scales)

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42. Safety glasses (not goggles, not tinted, and meets ANSI Z87.1 safety standard)
43. Magnetic parts tray
44. Pick Set
45. Plastic trim tool set
46. School supplies
 - 4 – 1-1/2” 3-ring binders
 - 12 – #2 pencils
 - 12 – Blue or black ink pens
 - 1 – Highlighter
 - 1 – Clipboard

Optional / Recommended - Optional tools may be purchased as needed.

1. 1/2” drive socket/ratchet set to include:
 - 7/16” through 1-1/8” SAE sockets
2. 3/8” drive socket/ratchet set to include:
 - 1/4” through 3/4” SAE sockets
 - 5/8” deep plug sockets
 - 13/16” spark plug socket
3. 1/4” drive socket/ratchet set to include:
 - 3/16” through 1/2” SAE sockets
4. Wrenches to include:
 - 1/4” through 1” combination, SAE
 - 3/8” through 5/8” line, SAE
5. Torx bits/drivers to include:
 - T8 through T30 screwdriver
6. Hex socket set
 - 1/16” through 3/8” hex
7. Universal terminal release tool (pick set)