

# 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](http://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](http://www.mactools.com)
- MDTECH or DM115 [www.matctools.com](http://www.matctools.com)
- EEDM504D [www.snapon.com](http://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)

# **DMACC ASEP/CAP/PACT and AUTO MECHANICS TECHNOLOGY PROGRAMS REQUIRED TOOL AND SUPPLY LIST**

42. Safety glasses (not goggles, not tinted, and meets ANSIZ87.1 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)