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
24. Air chuck

25. 6” pocket steel ruler

26. Outside Micrometer
   - 0” – 1” (with verneer 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](http://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](http://www.radioshack.com)
   - 82334  [www.sears.com](http://www.sears.com)
   - 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)
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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