

IVCCD AUTOMOTIVE TECHNOLOGY REQUIRED TOOL LIST

1st = 1st year fall, 2nd = 1st year spring

1. Tool box (must be a roller cart or roller cabinet, not to exceed 24" x 40" unless approved by instructor) - **1st**
2. 1/2" drive socket/ratchet set to include: - **1st**
 - 15mm through 25mm, 27mm - **1st**
 - 26mm, 29mm, 30mm, 32mm, 34mm, 36mm - **2nd**
 - breaker bar - **2nd**
 - extensions - **1st**
3. 3/8" drive socket/ratchet set to include: - **1st**
 - 8mm through 19mm metric sockets - **1st**
 - 9/16" spark plug socket – **2nd**
 - 13/16" spark plug socket - **2nd**
 - 5/8" spark plug socket - **2nd**
 - extensions - **1st**
 - universal joint - **1st**
4. 1/4" drive socket/ratchet set to include: - **1st**
 - 4 mm through 15mm metric sockets - **1st**
 - nut driver handle - **1st**
 - extensions - **1st**
 - universal joint - **1st**
5. Wrenches to include:
 - 7mm through 22mm combination, metric - **1st**
 - 10mm through 18mm line, metric - **2nd**
6. Standard screwdriver set - **2nd**
7. Phillips screwdriver set - **2nd**
8. 24" Pry bar - **1st**
9. Torx bits/drivers to include:
 - T8 through T60 drive torx bits - **2nd**
 - T8 through T30 screwdriver - **2nd**
10. Chisel & punch set to include 8" brass drift punch - **2nd**

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

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

13. Hammers
 - 16 oz. dead blow - **1st**
 - 16 oz. ball peen - **1st**
 - 32 oz. ball peen - **1st**
 - Brass hammer - **1st**

14. Brake tools - **1st**
 - Brake adjusting tool – 8" - **1st**
 - Brake retainer washer tool, large and small cup - **1st**
 - Brake spring pliers, remove and replace and stretching - **1st**

15. Tire crayon – **2nd**
 - Tire pressure gauge, 0 – 100 psi, digital - **2nd**
 - Tire tread depth gauge, 1/32" increments - **2nd**

16. Hex socket set - **2nd**
 - 1/16" through 3/8" hex - **2nd**
 - 1.5mm through 10mm - **2nd**

17. Feeler gauge – **1st**
 - .0015" – 080" – **1st**

18. Spark plug gap gauge – **2nd**
 - .035" – 080" – **2nd**

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

20. Plastic scraper – **1st**

21. 6" wire stripper/crimping tool, 10 to 20 gauge - **1st**

22. 12-volt test light - **1st**

23. Blow gun - **1st**

24. Air chuck - **1st**
25. 6" pocket steel ruler – **1st**
26. Outside Micrometer
 - 0" – 1" (with vernier scale .0001) OR – **1st**
 - 0mm – 25mm – **1st**
27. 0" to 6" dial caliper – **1st**
28. 10" Flat hand file with handle - **1st**
29. Flash light with batteries - **1st**
30. Oil filter wrenches (should fit small and large filters) – **2nd**
31. Universal terminal release tool (pick set) – **2nd**
32. Ignition spark tester – **2nd**
33. Terminal test probe adapter set – **2nd**

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

- 18001.10-Kit www.jumperkits.com

34. Digital Multimeter (specs and examples are listed below) - **1st**

Specs

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

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
- Fluke 87

37. Plastic thread pitch gauge - **2nd**
 - Standard and metric - **2nd**
38. Quick disconnect tools - **2nd**

- 39. Magnetic pick up tool - **1st**
- 40. Inspection mirror – **1st**
- 41. 12-foot steel measuring tape - **1st**
- 42. Safety glasses (not goggles, not tinted, and meets ANSIZ87.1 safety standard) - **1st**
- 43. Magnetic parts tray - **1st**
- 44. Torque wrench ½” up to approx. 250 ft-lbs - **1st**
- 45. Suggested School supplies - **1st**
 - 4 – 1-1/2” 3-ring binders - **1st**
 - 12 – #2 pencils - **1st**
 - 12 – Blue or black ink pens - **1st**
 - 1 – Highlighter - **1st**
 - 1 – Clipboard - **1st**

Optional tools may be purchased as needed.

Some additional tool part numbers of interest: (prices subject to change)

- EEDM525E \$191.39
- EEDM596EK \$342.19
- EEDM604E \$281.87
- TQFR250E \$184.98
- MG725 \$272.67
- TDM117A \$158.92