

Arizona Department of Education

Career and Technical Education

Recommended Equipment List

Program: **Automotive Collision Repair**

CIP#: **47.0600.30**

NOTE: The following items and descriptions are the recommended equipment guidelines for each CTE Automotive Collision Repair program. Please note that this list of recommended items does not necessarily need to be supported financially by Federal Perkins or State Priority funding sources. In many cases, local school district funds are used to purchase items on a regular basis (i.e. furniture, consumables, etc.) Further, please understand that this is not an exhaustive list. Local program and business needs may necessitate the purchase of additional equipment and software resources, as may the rapidly-changing nature of the industry-specific technologies used in the program.

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Recommended Equipment and Software

Item	Notes
Air Blow Guns - OSHA Standard	
Air System - Air Compressor	
Air Hoses - with quick release couplings	
Air lines	
Regulator	
Water Extractor	
Air Transformer/Regulators	
Coolant Drain Pan	
Corrosion Protection Application Equipment	
Creepers	
Exhaust Fans	
Grounded Extension Cords	
Heat Lamp	
Jack Stands	
Oil Drain/Storage Pan	
Overhead Ventilation - for welding area	
Powered Vehicle Mover (recommended)	
Pressure Washer (optional)	
Service Jacks	
Shop Brooms	
Dust pan	
Floor Squeegee	
Floor Mop and Bucket	
Step Ladder	
Scaffolds 18"-24" (recommended for repairing and painting tall vehicles)	
Storage Cabinets	
Trash Cans in accordance with local, state, and federal regulations	
Trouble/Work Lights – non-incandescent	
Vacuum Cleaner	
Work Benches – steel top with vice	
Work Stands - portable	
Wheel Caster System (Wheel Dollies)	
Bloodborn Pathogen Kit	
*Ear Protection - for students, instructors, and visitors	
Eye Wash Basin	
Eye Wash Station, portable (saline)	
Fire Extinguishers - by type as required	
First Aid Kit (per written first aid policy)	
Flammable Material Storage Locker - meeting fire and building codes	
Hazardous Spill Response Kit	
Lineman Gloves	
OSHA "Right to Know" Compliance Kit	
Protective Gloves and Clothing - for handling paint and related chemicals	
Respiratory Protection Equipment – as required by OSHA Safety Cans - for solvents, rags, etc.	

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Item	Notes
*Safety Glasses, Clear and Tinted Face Shields, and Goggles - for students, instructors, and visitors	
*Safety Shoes - as required	
Safety Shower - as required	
Vacuum System - for air sanders - dust extraction vacuum – stand alone or central system	
Adjustable Wrenches - 6" and 12"	
Allen Wrench Set - Standard (.050" - 3/8")	
Allen Wrench Set- Metric (2mm - 7mm)	
Chisel Set	
Combination Wrenches- Standard (1/4" - 1")	
Combination Wrenches- Metric (7mm - 19mm)	
Drill Motors - 3/8" and 1/2" variable speed, reversible	
Flare Nut (tubing) Wrenches- Standard 3/8" - 3/4"	
Flare Nut (tubing) Wrenches- Metric 10mm - 17mm	
Flashlight and batteries Hack Saw and blades	
Hammers- 16oz. Ball Peen	
Hammers- Brass	
Hammers- Dead Blow Mallet	
Hammers- Plastic Tip	
Hammers- Sledge	
Hammers- Soft Faced	
Hammers- Rubber Mallet	
Ignition Wrench Set- Standard	
Ignition Wrench Set-Metric	
Impact Wrenches- 3/8"	
Inspection Mirror	
Impact Wrenches- 1/2"	
Pickup Tool- Magnetic	
Claw type	
Pliers:	
→ Combination → Hose Clamp → Locking Jaw	
→ Needle Nose	
→ Side Cutting	
→ Slip Joint (Water Pump)	
Snap Ring Plier Set	
→ Internal	
→ External	
Punch Set Screwdriver - Blade Type:	
→ Stubby	
→ 6", 9", 12"	
→ Offset	
Screwdrivers - Phillips:	
→ Stubby #1, #2	
→ 6" #1, #2	
→ 12" #3	

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Recommended Equipment and Software

Item	Notes
→ Offset #2	
Screwdrivers - → Posidrive Set #1	
→ Posidrive Set #2	
→ Posidrive Set #3	
→ Posidrive Set #4 Torx® Set:	
→ T-8	
→ T-10	
→ T-15	
→ T-20	
→ T-25	
→ T-27	
→ T-30	
→ T-40	
→ T-50	
→ T-55	
Torx® External Set:	
→ E-4	
→ E-5	
→ E-6	
→ E-8	
→ E-10	
→ E-14	
→ E16	
Torx® Tamper Proof Set:	
→ T8	
→ T10	
→ T15	
→ T20 → T27	
→ T30	
→ T40	
→ T45	
→ T50	
→ T55	
Screw Extractor Set Screw Starter:	
→ Phillips	
→ Standard	
Socket Set - 1/4" Drive:	
→ 1/4" - 1/2" Standard Depth	
→ 1/4" - 1/2" Deep	
→ 6mm - 12mm Standard Depth	
→ 6mm - 12mm Deep	
→ Flex/Universal Type - Metric (standard optional)	
→ Universal Joint	
→ 3", 6" Extensions	

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Item	Notes
→ Ratchet	
Socket Set - 3/8" Drive:	
→ 5/16" - 3/4" Standard Depth (6 point) (optional)	
→ 3/8" - 3/4" Deep (6 point) (optional)	
→ 9mm - 19mm Standard Depth	
→ 9mm - 19mm Deep	
→ 3", 6", 12", 18" Extensions	
→ Flexhead Ratchet	
→ Impact Sockets - 3/8" - 3/4" Standard (optional)	
→ Impact Sockets - 10mm - 19mm	
→ Impact Driver	
→ Ratchet	
Socket Set - 1/2" Drive:	
→ 7/16" - 1 1/8" Standard Depth (optional)	
→ 7/16" - 1 1/8" Deep (optional)	
→ 10mm - 25mm Deep	
→ 10mm - 25mm Standard Depth	
→ 5", 10" Extensions	
→ Flex Handle (Breaker Bar)	
→ Impact Sockets Standard 7/16" - 1 1/8" (optional)	
→ Impact Sockets 12mm - 32mm	
→ Impact Driver	
→ Ratchet	
Socket Set - 3/8" Drive:	
→ 5/16" - 3/4" Standard Depth (6 point) (optional)	
→ 3/8" - 3/4" Deep (6 point) (optional)	
→ 9mm - 19mm Standard Depth	
→ 9mm - 19mm Deep	
→ 3", 6", 12", 18" Extensions	
→ Flexhead Ratchet	
→ Impact Sockets - 3/8" - 3/4" Standard (optional)	
→ Impact Sockets - 10mm - 19mm	
→ Impact Driver	
→ Ratchet	
Universal Joint	
Socket Set - 1/2" Drive:	
→ 7/16" - 1 1/8" Standard Depth (optional)	
→ 7/16" - 1 1/8" Deep (optional)	
→ 10mm - 25mm Standard Depth	
→ 10mm - 25mm Deep	
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Item	Notes
→ Impact Driver	
→ Ratchet	
Torque Wrenches (Sound/Click)Type:	
→ 3/8" Drive in. lb. (30 - 250)	
→ 3/8" Drive ft. lb. (5 - 75)	
→ 1/2" Drive ft. lb. (50 - 250)	
Caulking Gun	
C-clamps - assorted	
Files - for steel and aluminum	
Gear Puller Set - heavy duty with attachments	
Heat Gun	
Hole Saw Set - 1/2" to 2"	
Lug Wrench	
Oil Can (Pump Type)	
Pry Bar Set	
Putty Knife	
Rivet Guns - heavy duty blind and large for 3/16" and 1/4"	
Sanding Tools - assorted	
Scrapers	
Scratch Awl	
Tap and Die Sets - Metric (standard optional)	
Tape Measure - Standard and Metric	
Tin Snips	
Tire Pressure Gauge	
Tire Inflator	
Twist Drill Sets:	
→ Standard - 1/64" - 1/4" by 1/16" and Metric Equivalent	
→ Standard - 1/4" - 1/2" by 1/16" and Metric Equivalent	
→ Wire Brushes - hand and powered	
Special Removing and Releasing Tools:	
→ Door handle removing tool	
→ Door hinge spring and pin remover	
→ Moulding removal tools	
→ Spring lock line removal tool set (A/C, fuel line, etc.)	
→ Stationary glass removal tools	
→ Windshield wiper removing tool	
Assorted files - for metal and plastic finishing, including:	
→ Body Files	
→ Body Filler Shaping Files (Cheese Grater/Shredder)	
→ Hand Sanding Pads	
→ Metal Files	
→ Sanding Blocks (short and long)	
→ Sanding Boards (short and long)	
Hammers:	

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Item	Notes
→ Cross Chisel	
→ Door Skin Hammer	
→ General Purpose Pick	
→ Large Face Finishing	
→ Long Pick	
→ Short Utility Pick	
→ Shrinking	
Dollies:	
→ Bumping File	
→ Dinging Spoon	
→ Door skin Dolly	
→ Fender Dolly	
→ Inside Heavy Duty Spoon	
→ Inside High Crown	
→ Inside Medium Crown	
→ Spoon Dolly ("Dolly on a stick")	
→ Toe Dolly	
→ Universal Dolly	
Filler Spreaders and Applicators - assorted types and sizes	
Picks - assorted	
Everything listed under Non-Structural Analysis and Damage Repair (Body Components) plus:	
→ Frame/Unibody Straightening Equipment	
→ Bench/rack or floor-mounted system with multiple pull capacity	
→ Body over frame and unibody anchoring systems	
→ Three-dimensional Measuring System with the capability to measure the total vehicle → Tram	
Abrasive Cut-off Tool and Discs	
Anchoring System (recommended)	
Heat Shrinking Tool	
Car Lift (capable of totally lifting the vehicle) (recommended)	
MIG Welders and accessories (flow meter, cart, gas cylinder, nozzle cleaner)	
Plasma Cutting Torch (recommended)	
Portable Hydraulic Ram - with attachments	
Plastic and Adhesives Tools	
→ Plastic Welder	
→ Die Grinding Tool Set	
→ Disc Grinder - 3"	
Structural Adhesives Guns (dispenser) - two-component	
Portable Power Tools	
→ Abrasive Blaster and appropriate personal safety equipment (recommended)	
→ Eraser Wheel	
→ Grinders	
→ Metal Shears (optional)	
→ Nibbler (optional)	
→ Power Reciprocating Saw and Blades	

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Item	Notes
→ Sanders	
Pulling and Holding Equipment Set - to include:	
→ Body Clamps (recommended)	
→ Cable or Chain Ratchet (recommended)	
→ Safety Chains/Cables	
→ Sill Clamps (recommended)	
Slide Hammer - complete with attachments	
Stationary Power Tools	
→ Bench Grinder	
→ Drill Press (recommended)	
Welding Safety Equipment:	
→ Aprons	
→ Face Shields	
→ Gloves	
Welding Safety Equipment (cont'd)	
→ Goggles	
→ Helmets	
→ Jackets	
→ Respirators	
→ Safety Glasses	
→ Welding Blanket	
→ Skull Cap	
→ All appropriate safety equipment	
Squeeze-type Resistant Spot Welder (STRSW) (recommended)	
Weld-on Pulling Tool and Attachments	
Battery Charger - with boost capability	
Battery Terminal Pliers	
Battery Post Cleaner	
Brake Bleeder - vacuum assisted	
Brake Spoon	
Soldering Gun/Iron	
Chassis Lubricator	
Connector Pick Tool Set	
Cooling System Pressure Tester	
DMM (Digital Multimeter)	
Feeler Gauge (Blade Type):	
→ .002" - .040"	
→ .006mm - .070mm	
Flexible Dial Indicator Gauge	
Jumper Wire Set (with various adapters)	
Oil Filter Wrenches	
Portable Battery Jump Box	
Wheel Alignment System (4-wheel) (optional)	
Air Cap Test Gauge (optional)	

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Item	Notes
Air Sanders	
Color-matching Light System	
Electronic Dry Film Thickness Gauge with a + or - of 1/10th of a mil thickness capabilities	
Enclosed Paint Spray Booth to comply with local, state and federal regulation (downdraft booth)	
Hand Sanding Pads	
Masking Equipment	
→ Car Covers	
→ Paper and Tape Dispenser	
→ Wheel Covers	
Paint Mixing Bank with Measuring Equipment	
Paint Mixing Room (separate explosion-proof room per NFPA regulations)	
Paint Shaker (optional)	
Paint Storage Room/Locker in accordance with local, state, and federal regulations	
Personal Safety Equipment (painting gloves, suits, hoods, respirators, etc.)	
Portable Paint Curing Equipment (infrared)	
Prep Station - (recommended) in accordance with local, state, and federal regulations	
Sanding Blocks (short and long)	
Sanding Sponges	
Spray Guns -	
→ HVLP (high volume low pressure) or compliant	
Crowfoot Wrench Set-Metric (optional)	
Waste disposal/recycle program in accordance with local, state, and federal regulations	
Crowfoot Wrench Set- Standard (optional)	