Arizona Department of Education
Career and Technical Education
Recommended Equipment List

Program: **Automation and Robotics**
CIP#: **48.0500.20**

NOTE: The following items and descriptions are the recommended equipment guidelines for each CTE **Automation and Robotics** 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.

Please contact ADE-CTE Program Specialist Tracy Rexroat (tracy.rexroat@azed.gov) if you have questions regarding the appropriateness of any item you are considering for addition to your CTE **Automation and Robotics** program.

Recommended Equipment and Software	
Item	**Notes**
Hand Tools	
• Vernier Calipers	
• Clamps	
• Extension Cords	
• Crimpers	
• Metal Files	
• Glue Gun	
• Pitch Gauge	
• Hacksaw	
• Hammer and or soft Mallet	
• Electric Heat Gun	
• Jigsaw	
• Multimeter	
• Pliers	
• Arbor Press	
• Aligning Punch	
• Bushing Punch	
• Centre Punch	
• Scriber	
• Socket Set	
• Soldering Iron	
• Square	
• Screwdrivers	
• Tape measure or Ruler	
• Toolbox	
• Vise Grips	
• Small Vise	
• Bench Vise	
• Hex/Allen Wrench	
• Set SAE / Metric Wrenches	
• Open-end Wrenches	
• Soldering Gun	
• Welder	
Power tools	
• Cordless drill and recharger	
• Hand drill (cord or battery	
• Drill press	
Hand tool specifics	

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Recommended Equipment List:
Automation and Robotics

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* 16-ounce ripping hammer with heavy duty fiberglass handle	
* 9-inch, aluminum torpedo level	
* 3/4-inch wide by 16-foot long tape measure	
* Heavy-duty zinc utility knife with rubber grip	
Wrenches:	
* 16pc hex key set (Allen wrenches). eight metric and eight English sizes.	
* 6-piece combination wrench set with steel clip	
Pliers:	
* 8-inch needle- nose pliers with wire-cutting blades (meets or exceeds ANSI standards)	
* 8-inch diagonal pliers (meets or exceeds ANSI standards)	
* 8-inch groove-joint pliers (meets or exceeds ANSI standards)	
* 7-inch nickel-coated locking pliers	
* wire cutters	