Arizona Department of Education Career and Technical Education Recommended Equipment List

Program: Heavy Equipment Operations CIP#: 49.0202.00

NOTE: The following items and descriptions are the recommended equipment guidelines for each **CTE Heavy Equipment Operations** 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.

Please contact ADE-CTE Program Specialist for **Construction Science Technologies**, if you have questions regarding the appropriateness of any item you are considering for addition to your **CTE Heavy Equipment Operations** program.

Recommended Equipment and Software		
Item	Items	
Highest Priority*		
MUST HAVE		
Personal protective equipment (PPE)	Construction plans including:	
Hard hat	Topographical and grade information	
Safety glasses	Sight level	
Ear protection	Automatic level	
Gloves	Laser level	
Safety harness	Tripod Pocket	
Reflective safety vest	Leveling rod	
Barricades	Hand level	
Temporary traffic control devices	Leveling rods	
Flags and/or paddles	Measuring tape	
Respirator cartridges	18" ruler	
Samples of marked surveyor stakes:	String	
Center line stakes	Two-way communication - hands-free	
Offset stakes	Orange traffic cones	
Grade stakes	General maintenance hand tools	
Slope stakes	Engineering scales	
Edge of pavement stakes	100 feet tape measure	
	High Priority*	
REA	LLY SHOULD HAVE	
Jars with different types of soil	Slings	
Set of site plans including excavation drawings	Rigging hooks	
Marked grade and finish stakes	Shackles	
Markers	Various soil types	
	Lower Priority*	
	NICE TO HAVE	
Calculators	Three containers of soil binders,	
Functional skid steer	One each of cement, lime, and calcium chloride	
Palletized materials	Three containers of soil	
Empty container to collect water		
	Lowest Priority*	
NOT COMPLETELY NECESSARY		
Various pieces of heavy equipment:	Tractor Attachments:	
Construction Tractors	Drawbar/hitch types	
Dump Trucks	PTO types	
Roller/Compactors	Fuel Engine oil	
Scrapers	Hydraulic fluid	
Backhoe Loaders	Water	

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Recommended Equipment and Software		
Item		Items
Excavators		Lubricating grease
Dozers		Grease guns
Loaders		Trailer
Forklifts		
Motor Graders		
Trenchers		
Tractor		

*NOTE:

Equipment and tools list from NCCER HVAC level 1, internet search, SkillsUSA contest list and Arizona Instructors Suggested tools and equipment may not reflect all necessary tools and equipment needed