

Equipment and Technical Guide for: AP41 Horticulture I

Category	Item	Quantity	Required?
equipment	10" bench grinder	1C	yes
equipment	10" tilting arbor saw	1C	yes
tool	100-ft steel measuring tape	2C	yes
tool	13 oz. curved claw hammer with fiberglass handle	2C	yes
equipment	15-gallon power sprayer, 2-2-1/2 HP gasoline engines, cart with hose and sprayer gun	1C	yes
tool	16 oz. curved claw hammer with fiberglass handle	2C	yes
tool	16 oz. ripping claw hammer with fiberglass handle	2C	yes
tool	2 qt. measuring cup	2C	yes
tool	22 oz. ripping claw hammer with fiberglass handle	2C	yes
tool	25' drop light on reel	2C	yes
tool	25' heavy-duty extension cord	2C	yes
tool	25' long 5/8" water hose	4C	yes
equipment	3 gallon hand sprayer	2C	yes
tool	3' x 5' indoor/outdoor US flag	1C	yes
tool	3-prong hand cultivator with oak handles	10C	yes
tool	4 qt. measuring cup	2C	yes
equipment	4' and 5' rotary mower for tractor	1C	yes
equipment	4' x 8' dump trailer	1C	yes
tool	4-station wood-top work bench for shop	5C	yes
tool	5/8" x 6" wooden pot labels (box 250)	4C	yes
tool	50' drop light on reel	2C	yes
tool	50' heavy-duty extension cord	2C	yes
tool	50' long 5/8" water hose	4C	yes
equipment	6" bench grinder	1C	yes
equipment	6" machinist vise	1C	yes
equipment	80 gallon, 2- stage air compressor	1C	yes
equipment	Air filtration system for wood working and small engines	1C	yes
tool	Bow rake with wood handle	5C	yes
tool	Bow-type pruning saw with 30" blade	4C	yes
equipment	Briggs and Stratton tool set	5C	yes
equipment	Broadcast spreader	1C	yes
equipment	Cement mixer	1C	yes
equipment	Chain saw	4C	yes
tool	Clinometer	1C	yes
equipment	Computer with the latest available software and hardware	1:4S	yes
tool	Corrosion- resistant garden hand seeder	1C	yes
tool	Curved wood handle axe with 5 1/8" blade	5C	yes
tool	D-handle garden spade with wood handle and 18" long spade	5C	yes
equipment	Disc harrow for tractor	1C	yes
equipment	Dozing blade for tractor	1C	yes
equipment	Drill, 1/4", 3/8", and 1/2" electric, portable, variable speed 3/8", and 1/2" electric, portable, variable speed	2C	yes
equipment	Drop spreader	1C	yes
tool	Dual-element respirator with filters for dust, mist, acid gas, spray paint, organic vapor, and pesticides	20C	yes
equipment	Electric generator	1C	yes
equipment	Eyewash station	1C	yes
tool	Fan rake with wood handle	5C	yes
tool	FFA officer symbol set	1C	yes
equipment	Field cultivator for tractor	1C	yes
equipment	Flammable storage cabinet	1C	yes

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equipment	Front end loader for tractor	1C	yes
tool	Garden hoe with wood handle	10C	yes
tool	Gavel & sounding block	1C	yes
tool	General purpose water nozzle to be used with water hose	5C	yes
equipment	Germicidal cabinet for safety glass storage	1C	yes
equipment	Greenhouse with ventilation system, evaporative cooling system, heating system, and humidifier	1C	yes
tool	Hand truck	1C	yes
tool	Heavy-duty grafting tool with suckering capability, 4- 1/4" blade	10C	yes
tool	Hedge shears with 8" blades	10C	yes
equipment	Hinged pipe vise	1C	yes
tool	Hose reel	2C	yes
equipment	Increment borer	1C	yes
equipment	Irrigation system for greenhouse to include mist system, time controls, nozzles, solenoid, and pipe accessories	1C	yes
equipment	Jack stand	6C	yes
equipment	Lawn mower	1C	yes
equipment	Lawn mower with thatching equipment	1C	yes
equipment	Lawn roller	1C	yes
tool	Line level	2C	yes
tool	Lopping shears with 1- 5/8" cut capacity	5C	yes
equipment	Measuring wheel	1C	yes
equipment	Misting system, 6 mist nozzle complete with pipe, risers, timing clocks (Watco mist control complete with solenoid)	1C	yes
equipment	Oil tank, (used for oil)	1C	yes
equipment	Organic soil shredder	1C	yes
tool	Plant cloning kit for 30 students	1C	yes
tool	Plant propagation mat	2C	yes
tool	Plant, flats, pots, hanging baskets, 6-pac cells, all various sizes	400C	yes
tool	Pole pruner, 12' adjustable handle	1C	yes
equipment	Portable, electric circular saw	1C	yes
equipment	Post auger	1C	yes
tool	Post hole digger	2C	yes
equipment	Pressure washer	1C	yes
tool	Propagation bench (3' x 10' x 5' deep)	1C	yes
equipment	Propagation bench	1C	yes
tool	Pruning shears, chrome steel with vinyl grips	20C	yes
equipment	Root growth chamber	1C	yes
tool	Rotary tiller	1C	yes
tool	Rubber protective or latex gloves for acid, bases, alcohols and diluted water solution resistance (pair)	1S	yes
tool	Safety glasses/goggles	1S	yes
equipment	Shop vacuum	1C	yes
equipment	small 2 and 4 cycle gasoline engine	2C	yes
equipment	Small engine stand	5C	yes
equipment	Small engine trailer	1C	yes
tool	Soil analysis test kit	1C	yes
equipment	Soil auger (bucket)	1C	yes
tool	Soil auger (bucket, stainless 4" diameter)	1C	yes
tool	Soil moisture meter	1C	yes
tool	Soil PH and soluble salt test kit	1C	yes
tool	Soil screw auger (1 1/2" diameter, stainless)	1C	yes

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equipment	Solu-Bridge tester	1C	yes
tool	Stainless steel soil tube sampler with 7/8" diameter probe	1C	yes
equipment	Time clock	1C	yes
equipment	Transit with tripod and leveling rod	1C	yes
tool	Transplanting trowel with soil-depth markings and oak handles	10C	yes
equipment	Turf aerator	1B	yes
equipment	Vibrator seeder	1C	yes
tool	Watering wand with 12" and 24" handles and mist spray head	2C	yes
equipment	Weed eater	1C	yes
tool	Wheelbarrow	1C	yes
tool	Wood handled pitch fork	4C	yes
equipment	Wood slat bench	6C	yes
tool	Wood slat bench (at least 30" x 8')	16C	yes
tool	Wood-handled pick mattock	4C	yes
tool	Wood- handled, round-point shovel	5C	yes
tool	Wood- handled, square-point shovel	5C	yes

Category -

- **equipment** - is a non-expendable, tangible item. It is usually more feasible to repair it rather than replace it with an entirely new unit. It has a unit cost of over \$100.
- **tool** - is an expendable, tangible item. It is usually more feasible to replace it with an entirely new unit rather than repair it. It has a unit cost of less than \$100.
- **curriculum** - is additional curriculum materials.
- **software** - is computer software that is required or can enhance the instruction.
- **training** - is coursework or other professional development for the teacher.
- **subscription** - is for curriculum or supplemental material for a specified period of time.
- **supplemental** - is instructional resources that provide more information about or extend the content of a subject.
- **licensure/certification** - is examinations, license and certification fees for the students.
- **other** - is additional instructional resources.

Quantity - is the number of items needed for the (C) CTE classroom/lab, for the (B) school building, for the (L) LEA, or the number needed based on the number of (S) students in the classroom/lab.

In some cases the number is based on the (W) workstations in the classroom/lab. A classroom may be divided into several kitchen workstations or hospital bed workstations. In these cases the number of items is what is needed to equip one workstation. The number of workstations is based on the anticipated number of students taking that course at one time.

Quantity Examples:

- 1S = one of these items for each student in the classroom/lab
- 1S, 1C = one of these items for each student in the classroom/lab and an additional one in the classroom for the teacher
- 1:4S = one item for every four students in the classroom/lab
- 1B = one of these items per school building.
- 1L = one of these items per LEA (school district).
- 2C = two of these items per CTE classroom/lab.
- 3W-kitchen = three of these items per kitchen workstation in the classroom/lab.

Required?

- **yes** = This is required to teach the course.
- **no** = This is not required to teach the course.