**A greenhouse with plants growing in it

**

Agriculture Horticulture Equipment List

## Suggested Equipment List

### Health and Safety

* First Aid Kits
* Fire Extinguisher
* Hard Hats
* Work Gloves
* Safety Boots
* Safety Goggles/Face Shields
* Hearing Protection
* Respirators or Face Masks
* Knee Pads
* Protective clothing, e.g., Long-sleeved shirts, long pants, high visibility clothing, and chemical-resistant aprons or suits to prevent skin exposure
* Safety harnesses for tree climbing
* Chemical Spill Kits
* Safety Signs & Labels
* Eye Wash Station
* Sun Protection

### Classroom Technology and Instructional Tools

* Projector or Interactive Whiteboard
* Computers or Tablets
* Document Camera
* Diagrams and Posters

### General Hand Tools

* Measuring tape, ruler
* Pliers, wire cutters
* Trowels
* Hand Forks or Weeders
* Hand Pruners/Shears
* Pole Pruners
* Hand Hedge Trimmers
* Garden Scissors
* Loppers
* Garden Rakes
* Spades and Shovels
* Axe, or Hand Axe
* Mattocks
* Hoe
* Digging Forks
* Wheelbarrow
* Seed Spreaders
* Plant Markers
* Garden Kneeler
* Harvesting Baskets/Containers
* Pruning Saw, Hand Saw
* Plant Stakes and Ties
* Plant Sprayers
* Fertilizer Spreaders
* Plastic Mulch and Row Covers
* Spike Aerator
* Lawn Roller

### Floral Design Tools

* Floral Shears (Floral Scissors)
* Pruning Shears
* Floral Knives
* Wire Cutters
* Stem Cutters
* Floral Foam (Oasis
* Floral Tape
* Greening Pins
* Flower Frogs
* Floral Wire
* Wiring Needles
* U-pins (Floral U-pins)
* Vases and Containers
* Floral Picks
* Water Tubes
* Curling Iron
* Flower Presses
* Petal Shapers
* Ribbon Scissors
* Decorative Picks
* Floral Adhesive (Floral Glue
* Spray Bottles or Misters
* Cage or Netting
* Corsage Pins
* Coolers or Refrigerators
* Hydration Chambers
* Floral Cleaner
* Paper Towels and Rags
* Tool Sharpening Kit

### Power Tools

* Lawn Mowers, Powered, Push Lawn Mowers (Reel or Rotary), Riding Lawn Mowers, Zero-Turn Mowers
* Mulching Mowers
* Lawn Dethatches (powered or manual)
* String Trimmer/Weed Eater
* Hedge Trimmers
* Chainsaws with proper PPE
* Blowers
* Chipper
* Brush Cutter
* Stump grinder

### Hoisting and Rigging Tools

* Hoists: Mechanical or Electric (e.g., chain hoists, electric hoists, and manual hoists)
* Jacks
* Trolley Jack or Hand Truck
* Chains
* Rope and Wire Rope
* Slings (Synthetic and Steel)
* Shackles
* Hooks
* Pulleys and Blocks
* Load Binders and Turnbuckles, Swivels
* Load measurement tools

### Greenhouse Tools and Equipment

* Seed Trays and Flats
* Plant Labels
* Soil Scoops and Seeders
* Potting Benches
* Plant Ties and Twine
* Plant Clips
* Plant Cages
* Propagation Domes
* Trellis Systems
* Bamboo Stakes
* Soil Mixers
* Soil Test Kits
* Compost Bins
* Watering Cans
* Misting Systems
* Greenhouse Irrigation System
* Walter Filtration System
* Sprayers (Handheld or Backpack)
* Neem Oil Sprayers
* Pipette or Syringe
* Fungicide and Drenching Tools
* Thermometers/Hygrometers
* Fans and Exhaust Fans
* Shade Nets/Cloth
* Heaters
* CO₂ Injectors
* Fertilizer Spreaders
* Liquid Fertilizer Applicators
* Vacuum or Dust Blower

### Greenhouse Tools and Equipment (cont.)

* Brooms and Dust Pans
* Power Washer
* Cleaning Brushes
* Storage Bins and Racks
* Plant Lifting tools
* Grow Lights
* Hydroponic System

### Arboriculture Tools, Climbing Tools

* Crown Reduction Tools (Specialized tools used to reduce the canopy of a tree safely)
* Tree Bracing and Cabling Tools
* Tool belts, or gear bags
* Saddles (Climbing Harness)
* Climbing Ropes, Rope Bags for organization of ropes
* Rope Wrench
* Carabiners
* Ascenders
* Foot Ascender
* Lanyard
* Friction Hitch or Mechanical Descender
* Rigging Rope
* Rigging Blocks
* Slings
* Throwline
* Tree climbing spikes (optional)

### Irrigation System Tools, Design, Installation, and Maintenance

* Measuring Tape
* Landscape Design Software (e.g., AutoCAD, Irricad, or similar)
* Soil Testing Kit
* Pressure Gauge
* Flow Meter
* Shovel, Post Hole Digger
* Pipe Cutter/Tube Cutter
* PVC Pipe Bender (if needed)
* Pipe Glue/Cement
* Drill with Bits
* Sprinkler Head Adjuster/Tool
* Pipe Wrench Set
* Valve Locator
* Water Flow Tester
* Wire Strippers/Crimping tools
* Clog Remover (e.g., Needle or Pin for Drip Emitters)
* Pressure Regulator Testing Tool
* Backflow Prevention Tester
* Socket Set/Adjustable Wrenches
* Bucket/Toolbox
* Teflon Tape
* Lubricant (e.g., Silicone Spray)
* Flagging Tape
* Optional: Trenching Machine (optional for larger installations)

Landscape Design and Hardscape Tools(Tools not mentioned in previous sections)

* Drafting tools: Landscape Design Paper, Scale Ruler, Pencils, Colored Pencils, Erasers, and Fine-tip Markers, Protractor and Compass, Triangle or Set Square
* Computer Software: Landscape Design Software: Programs like SketchUp, AutoCAD, or PRO Landscape Plant Identification Apps
* Laser Level, Level
* String Line and Stakes
* Tamper (Manual or Powered)
* Masonry Tools (e.g., Trowels, Mortar Mixers, Finishing Tools)
* Sledge Hammer, Masonry Hammer
* Rubber Mallet
* Brick or Stone Splitter
* Tile Cutter
* Edge Trimmers
* Post hole diggers (manual or powered)
* Measuring Wheel
* Cement Mixer
* Power Saw
* Lawn Graders
* Hydroseeder
* Turf Aerators

### Pesticide Application Equipment

* Sprayers (Handheld, Backpack, or Tank Sprayers, Powered or Tractor-Mounted Sprayers)
* Granular Spreaders
* Pesticide Injection Systems (pesticides are injected directly into irrigation systems)
* Dust Applicators (For applying powdered pesticides to plants or soil)
* Pesticide Storage Containers: Secure, locked storage areas. (Ensure storage meets Massachusetts Department of Agricultural Resources (MDAR) guidelines.)
* Labeling Systems: Properly labeling pesticide containers, storage areas, and equipment for safety and compliance with state and federal regulations.
* Spill Containment Kits: Kits should include absorbent materials, containment barriers, and proper disposal bags.
* Pesticide Application Record Book: Massachusetts regulations require detailed records of pesticide usage to ensure compliance with safety and reporting guidelines, MDAR's regulations.
* Weather Monitoring Equipment: Recording temperature, humidity, and wind speed before and during pesticide application, as conditions impact the effectiveness and safety of pesticide use.

### Soil Preparation Tools

* Soil Test Kit
* Tensiometer
* Penetrometer
* Soil Thermometer
* Tiller/Cultivator, Motorized or manual tool
* Soil Aerator
* Garden Leveling Rake
* Compost Bins
* Soil Mixers or Blenders
* Compost Spreader
* Fertilizer Spreader (Broadcast or Drop Spreader
* Mulch Spreader
* Lime Spreader
* Land Leveler
* Drag Mat/Soil Drag
* Hand Tampers

Turfgrass Management Tools(Tools not mentioned previously)

* Moisture Meter
* Turfgrass Quality Assessors
* Turfgrass Compaction Testers
* Grooming Rakes
* Mulch Mowers
* Mulch Blowers
* Core Aerators
* Field Marking Equipment

### Watering Equipment

* Watering Cans
* Watering Wands or Extension Wands
* Garden Hoses
* Soaker Hoses
* Sprinklers
* Drip Irrigation System
* Irrigation Valves and Timers

### Outdoor Storage

* Tool Shed
* Storage Containers