



Tennessee Specific Industry Certification Horticulture Science Content Area Resource

This Tennessee Specific Industry Certification (TSIC) resource provides additional guidance as you prepare your horticulture instructional materials. The general knowledge and skills are provided as a guide for developing lessons and lab activities that lead to deeper understanding of content. The list of sample terms are just that, a list of industry-specific terms that will build each student's knowledge base for this content area.

General knowledge and skills for Landscape Design

- Determine information to collect during the initial landscape design interview.
- Explain the purpose of each step involved in developing a landscape plan.
- Identify the different elements required in a landscape inventory.
- Interpret the different components of a topographical map.
- Explain the proper use and care of the common landscape hand tools.
- Demonstrate the use of basic landscape drawing/drafting instruments.
- Explain the different landscape design principles.
- Select plants according to their purpose or function in the landscape.
- Explain the importance of the hardiness zones.
- Discuss the method and procedure for the different pruning methods.
- Identify and explain the difference between annual, perennials, herbaceous, and woody plants.
- Process for harvesting nursery stock.
- Explain the difference between hardscape, softscape, and xeriscaping.
- Select common plant materials for different environmental conditions.
- Describe the different types of available mulch and their benefits.
- Explain different methods of frost protection for individual plants and large plantings.

Sample terms associated with content area:

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| <input type="radio"/> 2, 4-D | <input type="radio"/> Buildings |
| <input type="radio"/> Affidavit | <input type="radio"/> Collar cut |
| <input type="radio"/> Amur maple | <input type="radio"/> Compass |
| <input type="radio"/> Aquaponic system | <input type="radio"/> Container grown |
| <input type="radio"/> Aquatic plant | <input type="radio"/> Containerized |
| <input type="radio"/> Architectural element | <input type="radio"/> Contour interval |
| <input type="radio"/> Asymmetric | <input type="radio"/> Contour line |
| <input type="radio"/> Asymmetric balance | <input type="radio"/> Core aeration |
| <input type="radio"/> Balance | <input type="radio"/> Cottonwood |
| <input type="radio"/> Balled and burlapped (b&b) | <input type="radio"/> Creating movement |
| <input type="radio"/> Bare-root | <input type="radio"/> Daylily |
| <input type="radio"/> Best fall color: | <input type="radio"/> Design |
| <input type="radio"/> Bid | <input type="radio"/> Drainage capacity |
| <input type="radio"/> Black walnut | <input type="radio"/> Drawing board |
| <input type="radio"/> Blue spruce | <input type="radio"/> Drawing table |
| <input type="radio"/> Boundaries | <input type="radio"/> Easel |



Tennessee Specific Industry Certification Resource Topics and Terms

- Engineer scale
- Existing features
- Exterior landscape
- Fences
- Fertilizer injection
- Focal point
- Focalization
- Focalization of interest
- Foundation planting
- Foundation planting plan
- Foundation plantings
- Frost protection
- *Ginko biloba*
- *Glyphosphate* (roundup)
- Grading
- Green ash
- Groundcover
- Groundwater
- Group planting
- Hackberry
- Heat of fusion
- Herbaceous
- Honey locust
- Hydroponic system
- Hydroponics
- Infiltration swales and basins
- Informal balance
- Insulation
- Interior landscape
- Land elevations
- Landscape plan
- Landscaping
- Lettering guide
- Maple
- Mercaptan (captan)
- Mirror image
- Oak
- Open area
- Ornamental bark:
- Pachysandra
- Paper birch
- Pesticide injection
- Physical features
- Plot plan
- Potentilla
- Private area
- Property
- Proportion
- Protractor
- Proximal balance
- Public area
- Red maple
- Retaining wall
- Rhythm
- Rhythm and line
- Root flare
- Rose
- Scale
- Sedum
- Selective insecticide
- Service area
- Shrub planting
- Shrub rose
- Site analysis
- Site analysis checklist
- Sketch
- Slopes
- Special use zones
- Specimen plants
- Spike aeration
- Sprinklers
- Storm water
- Storm water management plan
- Symmetric balance
- Template
- Topographic map
- Topography
- Trees
- T-square
- Undercut
- Utilities
- Water garden
- Water gardening
- Water lily
- Willow
- Xeriscaping