



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 Plant Disorders, Diseases, and Pest Management

- Describe the method used to determine acute toxicity levels in pesticides.
- Explain how diseases can be spread between plants via insects.
- Identify major diseases affecting fruit trees in Tennessee.
- Identify major insects affecting fruit trees in Tennessee.
- Explain why some seeds rot before germinating.
- Identify and explain the treatment for the most prevalent insects and diseases affecting horticultural crops.
- Discuss the pros and cons of natural plant pest control.
- Explain the impact the environment has on the growth, control, and prevention of plant diseases.

Sample terms associated with content area:

- 2, 4-d25.
- Acute dermal toxicities
- Acute oral toxicities
- Annual ryegrass
- Aphids
- Bacterial blight
- Bacterial spot
- Bacterial wilt
- Beneficial insects
- Bermuda grass
- Black knot
- Blighted tissues
- Blossom end rot
- Botrytis blight
- Canned insecticides
- Clubroot
- Common ingredient
- Crabgrass
- Cucumber mosaic virus
- Damping off
- Dandelions
- Discard the plant
- Fire blight
- Flowers
- Fungal leaf spots
- Fungus
- Germination
- Hemorrhaging
- Host
- Kentucky 31 fescue
- Korean lespedeza
- Lawn seed blends
- LD50.
- Leaves
- Lespedeza
- Marigolds
- Mildew
- Mold
- Mosaic virus
- Natural plant pest control
- Necrotic spots
- NPV virus
- Parasite
- Pathogens
- Perennial weed
- Pheromones



- Powdery mildew
- Root rot
- Rot
- Rotting of fruit
- Rotting of leaves
- Rust
- Saprophyte
- Scrape the aphids off of the plant
- Stems
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- Symptoms
- Tospo virus
- Toxicology dose
- Use a fungicide
- Vecto
- White clover
- Wipe the plant with soapy water