



## Tennessee Specific Industry Certification Horticulture Science Content Area Resource

This Tennessee Specific Industry Certification (TSIC) resource provides additional guidance as you prepare your horticulture science instructional materials. The general knowledge and skills are provided as a guide for developing lessons and lab activities that lead to a 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 Safety*

- Describe processes that must be used to keep employees safe in a horticulture business.
- Explain the importance of keeping and types of records as it relates to safety.
- Describe the current top five citations from OSHA during the past five years and explain how a citation could have been prevented.
- Explain the Food Safety Modernization Act (FSMA), including potential FSMA violations as related to a horticulture enterprise.
- Explain the basic potentially hazardous materials utilized in various horticulture enterprises.
- Demonstrate the proper procedures when using hazardous materials.
- Discuss the requirements of the Agricultural Worker Protection Standard.
- Interpret a pesticide product label correctly.
- Discuss pesticide safety and the use of Personal Protective Clothing (PPC) and Personal Protective Equipment (PPE) when mixing and spraying pesticides.
- Identify four ways that pesticides can enter the body and common signs and symptoms of pesticide poisoning.
- Describe the safety rules to observe when transporting pesticides in a car or truck and the safety rules to follow when storing pesticides.

### *Sample terms associated with content area:*

- Absorptive material
- Agricultural Worker Protection Standard (WPS)
- Bacteria
- Boric acid
- Cargo boxes
- Caution
- Chemical Transportation Emergency Center (CHEMTREC)
- Chlorophenoxys
- Client
- Cloth sweatband
- Commercial applicators
- Contaminate
- Costridia
- Daily use records
- Danger
- DANGER label
- Department of Transportation (DOT)
- Dermal exposure
- Disposable foam earplugs
- Dosage rate
- E. Coli



## Tennessee Specific Industry Certification Resource Topics and Terms

- EPA registration number and product type
- Eye protection
- Eyewash dispense
- FDA Food Safety Modernization Act (FSMA)
- Fecal contamination
- Feces
- Fit check
- Food and Drug Administration (FDA)
- Foodborne illness
- Full face shield
- Full-face respirator
- goggles
- Half-face respirator
- Hazardous materials training
- Headgear
- Herbicides
- Hydrated Lime
- Indirect vented safety goggles
- Inhalation Exposure
- Insecticides
- Integrated Pest Management (IPM)
- IPM plan
- LD50 rating
- Material Safety and Data Sheet (MSDS)
- Microbial water quality
- Molt
- National Transportation Research Group (TRIP)
- Neoprene gloves
- Non-vented safety goggles
- Occupational Safety and Health Administration (OSHA)
- Open vent safety goggles
- Operator
- Oral Exposure
- Organochlorine pesticides
- Organophosphates
- Organophosphates pesticides
- OSHA issues citations
- OSHA violations
- Personal Protective Equipment (PPE)
- Pesticide handler
- Pesticide storage facility
- Pesticides records
- Polyethylene gloves
- Pyriproxyfen
- Raw manure
- Rubber gloves
- Safety data sheets
- Salmonella
- Serious violations (OSHA)
- Soil amendment
- Spill kit
- Target pest
- Three C's of pesticide spills
- Toxic pesticides
- Triple rinse
- Unauthorized access
- United States Department of Agriculture (USDA)
- Warning
- Water holding capacity (WHC)
- Willful violations (OSHA)