



Tennessee Specific Industry Certification Animal Science Content Area Resource

This Tennessee Specific Industry Certification (TSIC) resource provides additional guidance as you prepare your veterinary and animal science 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 sample terms that will be helpful to build each student's knowledge base for this content area.

General knowledge and skills for Fundamental Care and Animal Health

- Create vaccination plan for horse, cattle, swine, sheep, poultry, and goats.
- Demonstrate the ability to interpret drug label information.
- Describe the symptoms for the major diseases that are a part of the normal vaccination schedule for horses, cattle, swine, sheep, poultry, and goats.
- Calculate proper doses of medicine according to age or body weight.
- Explain the body systems impacted by each of the common disease for horses, cattle, swine, sheep, poultry, and goats.
- Explain the impacts unhealthy animals have on the herd and the livestock enterprise.
- Visually identify common parasites that companion and
- Visually identify common tools used in the livestock industry or veterinary clinic.
- Describe environmental effect on livestock including the type of housing facilities
- Identify different biosecurity protocols to ensure safe disease free animal facilities.
- Explain the purpose and regulatory authority of federal, state, and private organizations that protect animal health and welfare.
- Explain the purpose, components, and required documentation of a Certificate of Veterinary Inspection.

Sample terms associated with content area

- Abscess
- Ambubag
- Anesthetic machine
- Anthelmintic
- Antibiotics
- Ascarids
- Autoclave
- Avian influenza
- Bacteria
- Bacterial diseases
- Balling gun
- Bander
- Barnes dehorner
- Biosecurity
- Blackleg
- Bolus
- Bolus gun
- Bots
- Bovine
- Brucellosis
- Canine parasite
- Carmalt
- Caseous Lymphadenitis
- Centrifuge
- Chain twitch
- CIDR gun
- *Clostridium chauvoei*,
- Coccidia
- Concentrated Animal Feed



Tennessee Specific Industry Certification Resource Topics and Terms

- Operation (C.A.F.O.)
- Contagious
- *Cornebacterium pseudotuberculosis*
- Coughing
- Cydectin
- Dead-end host
- Demodectic mange
- Dental retractor
- Developing resistance
- Dietary supplements
- Direct contact
- Dirty needle
- Dormant
- Dosage
- Drench
- Drench gun
- Ear mites
- Ear tagger
- Ectoparasite
- Elastrator
- Electric dehorner
- Elizabethian collar
- Endotracheal tube
- Equine
- Ewes
- Expiration date
- Fatal disease
- Flea
- Food and Drug Administration (FDA)
- Foot and Mouth Disease
- Foot baths
- Fowl Cholera
- Gaspings
- Giardia
- Health certificate
- Health papers
- Heartworm
- High pathogenic
- Hoof trimmer
- Hookworms
- Hot shot
- Hyperbaric
- Hypodermic needle
- Immune system
- Indirect contact
- Infectious
- Infectious anemia
- Infectious Bovine Rhinotracheitis (IBR)
- Infectious Bronchitis
- Infectious Bursal disease
- Infectious laryngotracheitis
- Influenza
- Injection
- Intestines
- Intradermal
- Intramuscular
- Intravenous
- Ivermectin
- LA 200
- Laryngoscope
- Laying eggs
- Leptospirosis
- Loafing pens
- Low pathogenic
- Marek's Disease
- Mastitis
- Merck's
- Mites
- National Poultry Improvement Plan (NPIP)
- Needle holder
- Negative Coggins test
- Non-infectious
- Nutritional deficiency
- Otic canal
- Ovine
- Parasite
- Parvo
- Penicillin
- Perimeter gates
- Pesticides
- Pink Eye
- Pinworms
- Pneumonia
- Porcine
- Pour-on
- Protozoan
- Rabies
- Reproducing
- Respirator



Tennessee Specific Industry Certification Resource Topics and Terms

- Respiratory diseases
- Rod-shaped
- Roundworm
- Rumen magnet
- Ruminants
- Safe Guard
- Salmonella
- Salmonellosis
- Sarcoptic mange
- Scoop or Tube dehorner
- Shock Collar
- Spore-forming,
- Strongyles
- Subcutaneous (sub-q)
- Symmetric
- Tapeworm
- Terramycin
- Trim Feet
- Twitch
- USDA
- Vaccination plan
- Vaccine label
- Vaccines
- Valbazen
- Vector
- Virus
- Whipworm
- Withdrawal time
- Wormers
- Zoonotic
- Zoonotic diseases