

# APHIS Approved Supplemental Training for Accredited Veterinarians

November 15, 2022

## Module Names and Descriptions

### **Module 1: Overview of the NVAP**

This module provides a review of the basic components of the National Veterinary Accreditation Program (NVAP). A brief history of the program, the importance and benefits of being an accredited veterinarian, and the duties and responsibilities of accredited veterinarians are reviewed. In addition, information on Category I and Category II accreditation and program certification opportunities is presented.

### **Module 2: Role of Agencies (State, Federal, International) and Health Certificates**

This module reviews the State, Federal, and international agencies an accredited veterinarian may interact with and the services these agencies provide. Instructions for accurate completion of health certificates for animals traveling domestically or internationally are reviewed. Written guidelines for the completion of several USDA APHIS and VS Forms are provided.

### **Module 3: Overview of Foreign Animal, USDA Program, and Reportable Diseases**

This module provides a review of a variety of foreign animal diseases, reportable diseases, and USDA program diseases. A list of several diseases applicable to Category I and Category II accredited veterinarians is included. The importance of early reporting of suspicion of these diseases and steps in a disease investigation are emphasized. The module also provides details about additional training opportunities and resources to stay informed about these types of diseases.

### **Module 4: Preventing Disease Introduction and Spread**

This module describes key practices to prevent and minimize disease exposure to animals and humans. Information includes review of types of personal protective equipment (PPE) and levels of use, cleaning and disinfection protocols, and types of disinfectants. Instructions on reading and interpreting disinfectant labels are included. Selection and implementation of best biosecurity practices in various animal settings is presented.

### **Module 5: Vesicular Diseases**

This module reviews vesicular diseases of importance to the agricultural industries in the United States. Diseases reviewed include foot-and-mouth disease, vesicular stomatitis, swine vesicular disease, vesicular exanthema of swine, and Senecavirus A. Clinical signs associated with vesicular diseases and specific biosecurity measures are discussed. An interactive scenario, emphasizing reporting suspicion of disease and following the chain of events that occur in a foreign animal disease investigation, is presented.

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## **Module 6: Exotic Avian Diseases**

This module reviews the impacts of an outbreak of two significant avian diseases in the United States – avian influenza and Newcastle disease. Clinical signs associated with both the less virulent and high pathogenicity forms of avian influenza (AI and HPAI) and Newcastle Disease (ND and END) are reviewed. Basic biosecurity measures specific to avian diseases are described. An interactive scenario following the potential introduction of a significant avian disease into the U.S. through the pet bird industry is presented.

## **Module 7: RETIRED.**

## **Module 8: International Movement of Horses**

This module describes the economic importance of the U.S. equine industry and the impact of international travel of horses on global spread of equine diseases. The process for proper completion of health certificates for movement, both temporary and permanent, is illustrated through an interactive scenario following the export of a horse to an international destination. Emphasis is placed on the role and responsibilities of the accredited veterinarian, isolation procedures, required laboratory tests, and accurate completion of an international health certificate.

## **Module 9: Interstate and International Health Certificates for Category I Animals**

This module emphasizes the importance of health certificates to document pet travel. The significance of proper and accurate completion of these documents is underscored, given the potential for spread of disease associated with pet travel. The process and regulatory resources for properly completing a companion animal health certificate are presented through interactive animations and a case scenario. Mistakes commonly made when completing health certificates are highlighted and steps to minimize these errors are provided.

## **Module 10: Personal Protective Equipment for Veterinarians**

This module reviews the proper use of personal protective equipment (PPE), from basic items such as gloves and coveralls, to items providing increased levels of protection such as respirators and chemical resistant outerwear. Differences between varying levels of PPE are explained. The process for performing a risk assessment and the selection of appropriate PPE is practiced using scenarios that might be encountered during daily veterinary practice activities. PPE used during an animal health emergency response is reviewed.

## **Module 11: Sheep and Goats: Disease Awareness and Health Certificates**

This module provides an overview of the sheep and goat industries. Eight diseases of impact to these industries and that are of significant importance for animals moving in interstate or international commerce are reviewed. The National Scrapie Eradication Program and the Scrapie Flock Certification Program are reviewed, highlighting the genetic components and

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identification requirements. Examples of properly completed health certificates for sheep and goats are provided to help veterinarians avoid common errors leading to delays or refusal of entry for their client's animals.

## **Module 12: Animal Disease Traceability**

This module reviews the components of the Animal Disease Traceability (ADT) program, including the Animal Disease Traceability regulation (9CFR part 86), official identification devices and methods used for different livestock species, and required documentation for interstate movement of livestock. The responsibilities of accredited veterinarians with respect to animal disease traceability are reviewed. A scenario involving cattle movement is presented to illustrate and emphasize the importance of accurate documentation of individual animal identification and interstate movement of livestock necessary for effective traceability of livestock.

## **Module 13: Aquatic Animal Health Regulations and Health Certification**

This module provides information about the various agencies involved in regulating aquatic animal health and trade, with an emphasis on USDA and the role of accredited veterinarians. Resources for obtaining current health regulations for the interstate movement and international export of aquatic animals is provided. Proper completion of health certificates for farmed aquatic animals is reviewed.

## **Module 14: Evaluation of Aquatic Animals for Detection of Reportable Diseases and Pathogens**

This module focuses on identification, detection, and reporting of aquatic animal diseases. Procedures for conducting veterinary inspections of aquatic animals and recognition of common signs of illness and disease in aquatic animal species are described. Collection of appropriate samples for diagnostic testing, including proper sample packaging and shipping procedures, are reviewed. The terms surveillance, monitoring, zoning, and compartmentalization are defined as they relate to aquatic animal regulatory programs.

## **Module 15: Disease Prevention and Biosecurity in Aquaculture**

This module reviews the important role of accredited veterinarians in safeguarding aquatic animal health. Topics reviewed focus on biosecurity practices specific to aquaculture facilities, disease prevention strategies specific to aquatic animal health, and disease control and eradication contingencies germane to the aquaculture industry. Valuable information is provided to assist accredited veterinarians and producers with risk evaluation and biosecurity assessments to develop and implement site-specific biosecurity plans.

**Module 16: RETIRED.**

**Module 17: RETIRED.**

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## **Module 18: Avian Influenza (AI) and Newcastle Disease (ND)**

This module provides an understanding of the economic and public health impacts of an exotic avian disease outbreak. Clinical signs associated with avian influenza (AI) and Newcastle disease (ND) and modes of transmission are reviewed. Details on collecting and submitting samples for surveillance, as well as procedures for reporting positive results for AI or ND, are addressed. Disease investigation and eradication activities, including implementation of appropriate on-farm biosecurity measures specific for each disease are reviewed.

## **Module 19: Animal Health Emergency Response**

This module provides information to assist you in being an effective asset once your boots hit the ground during an animal health emergency response. Various opportunities and roles for accredited veterinarians are identified and described. An understanding of the basics of the incident command system (ICS) and emergency response plans, including response organization operations and integration, are reviewed. Potential health and safety issues that may arise during an animal health emergency response discussed. Pre-deployment training needs are identified.

## **Module 20: Slaughter Horse Transport**

This module addresses the physical and physiological stresses endured by horses during transport. The physical exam and assessments that determine a horse's fitness to travel are reviewed. Conditions that make a horse unfit to travel to slaughter are highlighted. Resources are identified to assist in locating current health and welfare regulations for the interstate movement and international export of horses. Finally, various recommendations that can be shared with owners and shippers to ensure their horses arrive at their destination humanely and within the legal regulatory framework are provided.

## **Module 21: Animals' Fitness to Travel**

This module reviews the role of the accredited veterinarian when evaluating the fitness of livestock for movement and includes descriptions of specific elements of the inspection or examination when determining if the animal is fit to travel. Steps to make transportation comfortable and safe for livestock are explained, including appropriate actions to take with animals unfit for transport. Suggestions to support the well-being of animals during transport are discussed.

## **Module 22: Animal Welfare: An Introduction**

This module explains the importance of including animal welfare considerations as part of an accredited veterinarian's regulatory activities. The concept of animal welfare is defined and the process of assessing and evaluating an animal's welfare status is reviewed. Opportunities and challenges related to animal welfare are discussed.

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## **Module 23: Antibiotic Use in Animals**

This module reviews the terms and concepts necessary for veterinarians to make informed decisions regarding proper selection and judicious use of antibiotics in animals. The various benefits and limitations of antibiotic susceptibility testing and how to correctly interpret a drug label are presented. A review of the many agencies involved in regulating the use of antibiotics and antibiotic resistance and drug residue monitoring is provided. Key components of the Animal Medicinal Drug Use Clarification Act (AMDUCA) and extra-label use of drugs are reviewed. Various resources to assist in making informed decisions regarding antibiotic use in animals are included.

## **Module 24: Collecting and Shipping Swine Diagnostic Samples**

This module provides a detailed review of swine diagnostic sample collection techniques and the steps for properly labeling, packaging, and shipping diagnostic samples. It also emphasizes occasions when collecting samples is not appropriate, as in the case of suspected foreign animal diseases. Lastly, this module addresses regulations related to shipping samples to veterinary diagnostic laboratories.

## **Module 25: Using Behavior to Assess Welfare**

This module explains how veterinarians can assess the health and welfare of animals by observing their behavior. Normal behaviors seen in various animal species under conditions promoting good welfare are explained. Abnormal behaviors exhibited when influenced by different illnesses and improper living conditions are considered. Information on recognizing, treating, and preventing pain and distress in animals is also provided.

## **Module 26: Nonhuman Primate Transport**

This module describes the accredited veterinarian's responsibilities related to transportation of nonhuman primates and oversight by various regulatory entities. Key aspects of preventing injury and minimizing spread of infectious diseases discussed. A review of the numerous certificates needed for transport of nonhuman primates is provided.

## **Module 27: Bovine Trichomoniasis**

This module provides an overview of bovine trichomoniasis and its impact on the cattle industry. State testing and entry requirements are presented. Proper sample collection procedures, and sample handling, packaging, and shipping of samples to a diagnostic laboratory are reviewed. Resources to develop a herd management plan to reduce the risk of introduction and spread of disease on cattle operations are provided.

## **Module 28: Significant and Emerging Viral Diseases of Carp, Koi, and Goldfish**

Cyprinids (e.g., carp, koi, goldfish) are an important aquaculture species within the United States. These species are susceptible to a variety of reportable, monitored, and emerging

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diseases. This module describes and differentiates the OIE-listed diseases (koi herpesvirus disease and spring viremia of carp) of susceptible cyprinid, as well as other monitored and emerging diseases of concern for these aquaculture species (e.g., cyprinid herpesvirus 1 and 2, and carp edema virus disease). The module also discusses the role of the accredited veterinarian in monitoring, detecting, and reporting these diseases.

## **Module 29: Veterinary Feed Directive**

This module provides an overview of the Veterinary Feed Directive (VFD). An introduction to antimicrobial resistance and the need for veterinary supervision of use of medicated feeds is provided. Regulatory oversight by the Food and Drug Administration (FDA) is discussed, including development of new animal drugs to be delivered in feed. The module reviews information to be included in and proper completion of a Veterinary Feed Directive. Resources for additional information are provided throughout the module.

## **Module 30: The Role of Veterinarians in Honey Bee Health**

This module provides accredited veterinarians with basic knowledge of beekeeping, honey bee biology, and relevant honey bee diseases and conditions. The module focuses on the role of veterinarians related to antimicrobial use in honey bees and the issuance of prescriptions and Veterinary Feed Directives. Valuable services veterinarians can provide to beekeepers, such as assisting hobbyist beekeepers with plans for parasite management or assisting commercial beekeepers with the development of protocols to be followed by beekeeping staff for disease detection and control are reviewed.

## **Module 31: High-Impact Equine Diseases in the U.S.**

This module provides accredited veterinarians with information on high-impact equine diseases that have occurred in the United States. Outbreaks of regulatory diseases that can lead to significant economic and trade impacts for the U.S. equine industry are reviewed. Principles of biosecurity to prevent and mitigate equine diseases are considered.

## **Module 32: Regulation of Vaccines and Related Biologics**

This module provides the accredited veterinarian with an overview of regulation of vaccines and biologics in the United States. The approval and monitoring processes for biologics are described. Information is provided on how an accredited veterinarian can access specific biologics information provided by the Center for Veterinary Biologics (CVB). Communication mechanisms between the CVB and accredited veterinarians are provided.

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## Module 33: [reserved]

## Module 34: Veterinary Export Health Certificate System (VEHCS)

This module provides the accredited veterinarian with information about the functionality of the Veterinary Export Health Certification System (VEHCS). It demonstrates the extent to which it can be used and describes how to access and use the VEHCS.

## Module 35: Bovine Tuberculosis in Cattle

This module provides the accredited veterinarian with background information on bovine tuberculosis, describes the process for diagnosing bovine tuberculosis, and details the process for performing the caudal fold test in cattle. Information to aid in the interpretation of caudal fold test responses in cattle is provided. The steps an accredited veterinarian must follow once the caudal fold test is completed are detailed.

## Module 36: An Introduction to the National Poultry Improvement Plan (NPIP) and Domestic and International Movement of Poultry

This module provides the accredited veterinarian with an understanding of their roles, responsibilities, and opportunities with respect to poultry. The definition of “poultry” and the basics of the National Poultry Improvement Plan (NPIP) and the role it plays in poultry movement are discussed in detail. Included is an understanding of the process for preparing and issuing International Health Certificates (IHCs) for hatching eggs, day-old chicks, and other poultry exports. Potential accreditation violations and the ramifications of such violations are also discussed.

## Module 37: [reserved]

## Module 38: Role of Category I Animals in Foreign Animal Disease (FAD) Introduction and Transmission

This module explores the complex relationship between the accredited veterinarian, Category I animals, and foreign animal diseases. Several foreign animal diseases associated with Category I animals are discussed. Also discussed are the impacts of foreign animal diseases and the importance of mitigating those impacts. Resources to help accredited veterinarians keep current on foreign animal disease situations worldwide are provided.

## Module 39: Swine Health for the Accredited Veterinarians

This module provides an overview of the swine industry in the United States and the important swine health services provided by accredited veterinarians. Techniques for safely restraining, examining, and collecting a blood sample are reviewed. The types of official identification for use on swine, including official identification requirements when moving in interstate commerce, are considered. Clinical signs of swine diseases of concern are reviewed, as is the process for reporting suspicion of these diseases.