

# Clinical Pathology

## Veterinary Technology Courses-CEUs

### \*Presented by Certificates on Demand\*

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- 📌 Instructor: Tricia Elliott, MS, RVT, CVT | [elliott.tricia@gmail.com](mailto:elliott.tricia@gmail.com)
- 📌 Courses will be scheduled on demand and instructed in a hosting hospital setting
- 📌 Attendees: *Veterinary Assistants and Certified Veterinary Technicians/*
- 📌 *Technologists* Continuing Education price: \$50/hour- Earn 1 CEU/ hour (4-hour minimum; 6-hour maximum); Approved by the OVMB

### Course Structure

#### LECTURES/ TECHNICAL SKILLS LAB

- Power point lecture: Course materials will be supplied to students; completion certificate provided
  - Wet-lab break-out sessions: Practice technical skills with real samples and microscopes

### Course Content

#### HEMATOLOGY I (2 HOURS/ 2 HOURS OF CE)

- Basic morphology of blood cells (RBC, WBC and Platelets)
  - Differences in cell morphology of various species
- Preparing blood smears, staining blood smear, examination of slide
- Differential white blood cell, hematocrit (PCV/ TP), plasma vs. serum
- Venipuncture- methods of collection for various species, collection chambers (i.e. EDTA tube)
- Interpretation of results-basic cases

#### HEMATOLOGY II (2 HOURS/ 2 HOURS OF CE)

- How to perform a CBC, total body functional tests, special tests (i.e. BMBT, coagulation tests)
- Overview of blood diseases in animals (small, large, exotics)
- Intravenous injections
- Blood smear preparation and examinations
- Knowledge of blood analyzer equipment
- Interpretation of results-advanced cases
- Case studies

#### URINALYSIS (2 HOURS/ 2 HOURS OF CE)

- Methods of collection-free catch, catheterization, cystocentesis
- Parts of a urinalysis: Specific gravity, chemical stripe, microscopic evaluation
- Urinary calculi: most common crystals found in urine for multiple species

#### PARASITOLOGY (2 HOURS/ 2 HOURS OF CE)

- Introduction to parasites: Endo, ecto parasites, protozoans and ringworm
- Endoparasites: Types of internal GI parasites, methods of fecal examinations: fecal floatation, fecal centrifugation, direct smear; common parasitic ova and oocysts identification

- Blood parasites: Types of parasites that live in the blood, examination of blood smear for blood parasites, ELISA tests, filtration method
- Ectoparasites: Common external parasite, methods of diagnosis: Gross examination of parasite. skin scrapes (deep vs. superficial), cellophane tape method
- Dermatophyte testing medium (testing for ringworm)

### **CYTOLOGY (2 HOURS/ 2 HOURS OF CE)**

- Assisting the DVM in sample collection: restraining patient for collection
- Techniques for analysis: methods of collection (i.e. fine needle aspirate)
- Normal and abnormal cell identification