LIST OF PRACTICE DOMAINS AND TASKS FOR THE VETERINARY TECHNICIAN NATIONAL EXAMINATION (VTNE)

VTNE PRACTICE DOMAINS	
Domains	**% of Items**
Domain 1. Pharmacy & Pharmacology	**12**
Domain 2. Surgical Nursing	**11**
Domain 3. Dentistry	**7**
Domain 4. Laboratory Procedures	**12**
Domain 5. Animal Care and Nursing	**22**
Domain 6. Diagnostic Imaging	**7**
Domain 7. Anesthesia	**16**
Domain 8. Emergency Medicine/Critical Care	**6**
Domain 9. Pain Management/Analgesia	**7**

(Task area statements appear on the pages that follow)

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PRACTICE DOMAINS AND TASK STATEMENTS FOR THE VETERINARY TECHNICIAN NATIONAL EXAMINATION (VTNE)

DOMAIN 10.00 Pharmacy and Pharmacology (12%)

TASK 10.01 Utilize knowledge of anatomy, physiology and pathophysiology as it applies to the use of pharmacological and biological agents.
TASK 10.02 Prepare, administer, and/or dispense pharmacological and biological agents (excluding anesthetics and analgesics) to comply with veterinary orders.
TASK 10.03 Educate the client regarding pharmacological and biological agents (excluding anesthetics and analgesics) administered or dispensed to ensure the safety of the patient/client and efficacy of the products.

DOMAIN 20.00 Surgical Nursing (11%)

TASK 20.01 Utilize knowledge of anatomy, physiology and pathophysiology as it applies to surgical nursing.
TASK 20.02 Prepare and maintain the surgical environment, equipment, instruments, and supplies to meet the needs of the surgical team and patient.
TASK 20.03 Prepare patient for procedure (including but not limited to surgical site preparation and patient positioning).
TASK 20.04 Function as a sterile surgical technician (including but not limited to tissue handling, suturing, instrument handling) to ensure patient safety and procedural efficiency.
TASK 20.05 Function as a circulating (non-sterile) surgical technician to ensure patient safety and procedural efficiency.

DOMAIN 30.00 Dentistry (7%)

TASK 30.01 Utilize knowledge of anatomy, physiology and pathophysiology as it applies to dentistry.
TASK 30.02 Prepare and maintain the environment, equipment, instruments, and supplies for dental procedures to meet the needs of the dental team and patient.
TASK 30.03 Perform or assist with dental procedures (including but not limited to prophylactic, radiographic, therapeutic, and charting) to maintain the dental health of the patient and aid in the treatment of dental disease.
TASK 30.04 Educate the client regarding dental health, including prophylactic and post-treatment care.

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PRACTICE DOMAINS AND TASK STATEMENTS FOR THE VETERINARY TECHNICIAN NATIONAL EXAMINATION (VTNE) - continued

DOMAIN 40.00 Laboratory Procedures (12%)

TASK 40.01 Utilize knowledge of anatomy, physiology and pathophysiology as it applies to laboratory procedures.
TASK 40.02 Collect, prepare, and maintain specimens for in-house or outside laboratory evaluation.
TASK 40.03 Perform laboratory tests and procedures (including but not limited to microbiology, serology, cytology, hematology, urinalysis, and parasitology).
TASK 40.04 Maintain laboratory equipment and related supplies to ensure quality of test results and safety of operation.

DOMAIN 50.00 Animal Care and Nursing (22%)

TASK 50.01 Utilize knowledge of anatomy, physiology and pathophysiology as it applies to animal care and nursing.
TASK 50.02 Perform and document initial and ongoing evaluations of physical, behavioral, nutritional, and environmental status of animals to provide for optimal animal/client safety and health.
TASK 50.03 Perform animal nursing procedures (including but not limited to restraint, post-operative care, catheterization, wound management, bandaging, and rehabilitation therapy) in the implementation of prescribed treatments.
TASK 50.04 Perform clinical diagnostic procedures (including but not limited to blood pressure measurement, electrocardiography, and oximetry) to aid in diagnosis and prognosis.
TASK 50.05 Educate clients and the public about animal care (including but not limited to behavior, nutrition, pre- and post-operative care, preventative care, zoonosis) to promote and maintain the health of animals and the safety of clients/public.
TASK 50.06 Provide a safe, sanitary, and comfortable environment for animals to ensure optimal healthcare and client/personnel safety.
TASK 50.07 Maintain diagnostic and related supplies to ensure quality of test results and safety of operation.

DOMAIN 60.00 Diagnostic Imaging (7%)

TASK 60.01 Utilize knowledge of anatomy, physiology and pathophysiology as it applies to diagnostic images.
TASK 60.02 Produce diagnostic images (excluding dental) following protocols for quality and operator/patient safety.
TASK 60.03 Maintain imaging equipment and related materials to ensure quality to ensure quality of results and safety of operation.

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DOMAIN 70.00 Anesthesia (16%)

TASK 70.01 Utilize knowledge of anatomy, physiology and pathophysiology as it applies to anesthesia.
TASK 70.02 Assist in development of the anesthetic plan to ensure patient safety and procedural efficacy.
TASK 70.03 Implement the anesthetic plan (including but not limited to administration of medication, monitoring, and maintenance) to facilitate diagnostic, therapeutic, or surgical procedures.
TASK 70.04 Prepare and maintain anesthetic equipment and related materials to ensure safe and reliable operation.
TASK 70.05 Educate the client about anesthetics and anesthesia to ensure the safety of the patient/client and efficacy of the product(s) or procedure(s).

DOMAIN 80.00 Emergency Medicine/Critical Care (6%)

TASK 80.01 Utilize knowledge of anatomy, physiology and pathophysiology as it applies to emergency medicine and critical care.
TASK 80.02 Perform triage and document initial and ongoing evaluations of physical, behavioral, nutritional, and environmental status of animals presented for critical conditions (including but not limited to shock, acute illness, acute trauma, and toxicity).
TASK 80.03 Perform emergency nursing procedures (including but not limited to cardiopulmonary cerebral resuscitation (CPCR), stemming acute blood loss, and fracture stabilization) in the implementation of prescribed treatments.
TASK 80.04 Perform critical care nursing procedures (including but not limited to blood transfusions, fluid resuscitation, and ongoing oxygen therapy) in the implementation of prescribed treatments.

DOMAIN 90.00 Pain Management/Analgesia (7%)

TASK 90.01 Utilize knowledge of anatomy, physiology and pathophysiology as it applies to pain management and analgesia.
TASK 90.02 Assess need for analgesia and assist in the development and implementation of the pain management plan to optimize patient comfort and/or healing.
TASK 90.03 Educate the client with regard to analgesics and administration of pain management protocols and the side effects to ensure the safety of the patient/client and efficacy of the product(s) or procedure(s).

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LIST OF KNOWLEDGE STATEMENTS FOR THE VETERINARY TECHNICIAN NATIONAL EXAMINATION (VTNE)

KNOWLEDGE

01 Anatomy

02 Normal physiology

03 Pathophysiology

04 Common animal diseases

05 Medical terminology

06 Toxicology

07 Applied mathematics (including but not limited to metric system/weights, measures/ percentage solutions, dosage calculations)

08 Drug classification

09 Routes of administration of pharmacological and biological agents

10 Legal requirements and procedures for acquiring, preparing, storing, dispensing, documenting and disposing of pharmacological and biological agents

11 Safe handling practices for pharmacological and biological agents

12 Pharmacokinetics (drug absorption, metabolism, excretion), normal and abnormal drug reactions, indications, contraindications, side effects, and interactions

13 Fluid balance and therapy, including calculation

14 Aseptic techniques

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15 Patient preparation and positioning techniques(including but not limited to diagnostic imaging, surgery, medical procedures)

16 Surgical procedures

17 Surgical equipment, instruments, and supplies

18 Sterilization techniques and quality assurance for equipment, instruments, and supplies

19 Safety considerations related to surgical equipment, instruments, and supplies

20 Wound closure (including suture materials and patterns, staples, and tissue adhesives)

21 Dental procedures (including but not limited to cleaning, floating, charting, preventive procedures, dental imaging)

22 Dental equipment, instruments, and supplies

23 Safety considerations related to dental procedures

24 Sample collection, preparation, analysis, storing, and shipping techniques

25 Laboratory diagnostic principles, procedures, and methodologies (including but not limited to microbiology, serology, cytology, hematology, urinalysis, and parasitology)

26 Quality assurance in the laboratory (including but not limited to maintenance of equipment, verification of test results, calibration, and controls)

27 Normal and abnormal laboratory and diagnostic test results

28 Animal assessment and monitoring techniques, excluding anesthetic monitoring

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29 Principles of animal behavior

30 Clinical diagnostic procedures

31 Nutrition

32 Safe animal handling and restraint techniques

33 Animal husbandry

34 Animal nursing procedures and rehabilitation therapies

35 Animal first aid, triage, and emergency/critical care techniques

36 Public health (including but not limited to infection control, zoonosis and epidemiology)

37 Environmental health and safety procedures(including but not limited to handling and disposing of hazardous material, personal safety, evacuation procedures, safety plans, equipment, and instrumentation)

38 Disease control and prevention techniques(including but not limited to quarantine, isolation, vaccination, wellness care, and herd health)

39 Facility cleaning and disinfection techniques

40 Diagnostic imaging equipment and procedures(including but not limited to radiography, ultrasonography, and contrast studies)

41 Quality assurance and safety for diagnostic imaging

42 Pre- and post-anesthetic assessment and care

43 Anesthetic induction, maintenance, monitoring, and recovery including stages of anesthesia and troubleshooting

44 Pre-anesthetic and anesthetic medications reactions, indications, contraindications, side effects, and interactions

45 Pain assessment and analgesic administration techniques

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46 Procedures for care, maintenance, and use of diagnostic, therapeutic, surgical, dental, monitoring, and anesthetic equipment and supplies

47 Professional ethics (including but not limited to the Veterinary Technician Code of Ethics)

48 Techniques for communicating with the veterinary medical team and client

49 Inventory control and management

50 Record keeping

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