NOTE: This is not a complete list of procedures. It is a list of common procedures designed to test the candidate’s competence. Candidates must be able to complete/explain/demonstrate any one or more of the following procedures or actions.

All procedures, techniques and materials listed are evaluated according to the standard as taught to the current South African veterinary student. Candidates are therefore kindly asked to familiarise themselves with them, as they may be different from the standards in their country of origin and other countries.

All species (canine, feline, equine, bovine, porcine, ovine and caprine)

- Control and handle the animal (including physical means of restraint, muzzles, casting (bovines), etc.)
- Perform a clinical examination using only ears, eyes, hands, a stethoscope and a thermometer, indicate appropriate differential diagnoses and additional procedures or equipment to be used
- Perform a rectal examination (bovines, equines and canines)
- Make, stain, examine and interpret a blood smear
- Identify common microscopic parasites, for example: Examine a slide with a blood smear for Babesia, a brain smear for heartwater, or a semen smear for bacteria, by use of a microscope
- Perform a WBC differential count
- Collect a venous blood sample using relevant veins for each species
- Perform and read a microhaematocrit
- Collect a urine sample and perform a full urine analysis
- Perform an ear examination using an otoscope
- Perform an eye examination using an ophthalmoscope
- Place an intravenous catheter
- Set up an intravenous and intra-peritoneal infusion (crystalloid and blood)
- Know the sites for and be able to perform a sub-cutaneous and intramuscular injection (for each species)
• Take histological samples (intra operative, biopsy and necropsy)
• Take samples for microbiological evaluation (intra operative, biopsy and necropsy)
• Communicate effectively, both verbally and in writing, with clients, the lay public, professional colleagues and responsible authorities; listen to, understand and respond empathetically to clients, use language in a form appropriate to the audience and the context (a diversity of cultures, customs, value systems and means)
• Obtain an accurate history of the individual animal/group of animals including relevant aspects related to the immediate environment of the animal(s)

MEDICINE

Canine and feline
Obtain samples/perform examinations as follows:
  Skin scraping
  Hair pluck
  Ear smear
  Woods lamp examination
  Fine needle aspiration and basic cytology
  Impression smear and basic cytology
  Abdominocentesis
  Thoracocentesis
  Faecal floatation
  Faecal wet preparation
  Faecal smear
  Cystocentesis and urine analysis
  Urinary catheterisation male
  Pass a stomach tube
  Place and evaluate a naso-oesophageal tube
  Skin biopsy
  Ear flush
  Demonstrate basic the CPR procedure (including drugs and routes of administration)
  Perform a basic neurological examination
  Perform basic eye evaluation
  Express anal sacs of a dog
Production animals (bovine, ovine and caprine)
  Collect rumen fluid, analyse and interpret results
  Examine and interpret rumen motility
  Take an aseptic milk sample
  Perform a California Milk Test and interpret it
  Perform and evaluate a TB (tuberculosis) skin test
  Perform an abdominocentesis
  Collect a faecal sample and examine it
  Dose a rumen magnet
  Dose via stomach tube
  Perform claw care
  Do a dehorning: demonstrate debudding
  Do sub-conjunctival injection
  Evaluate sheep by Famacha chart
  Do brain smear

Equine
  Obtain samples/perform procedures as follows:
    Skin scraping
    Hair pluck
    Acetate tape test
    Woods lamp examination
    Fine needle aspirate and basic cytology
    Abdominocentesis
    Faecal floatation
    Faecal wet preparation
    Faecal smear
    Urine collection and analysis
    Pass a nasogastric tube

SURGERY

Canine and feline
  The following will be tested on cadaver specimens:
  Perform:
    Suture and tension suture
    Wire tension for orthopedic work
    ovariohysterectomy
castration
mandibular symphysis wiring
oesophagostomy feeding tube placement
tracheotomy
tube thoracostomy and assemble a portovac drain correctly
simple dental extraction
dental scale and polish (with identification of relevant instrumentation)

Perform an exploratory celiotomy with any of the following:
organ or organ part identification
gastrotomy/partial gastrectomy
enterectomy/enterotomy
splenectomy
cystotomy
liver biopsy
spleen biopsy

Explain the principles of fracture repair for a given radiological case
Name and be able to handle correctly the instruments involved in a basic soft tissue surgical set
Perform a simple abdominal ultrasound examination with identification of major organs
Positioning technique [only] for taking a radiograph for a specified condition
Perform a Schirmer tear test
Perform and interpret a fluorescein stain test
Take conjunctival swabs

**Equine**
Apply limb bandages
Place a tail bandage
Do a lameness evaluation
Examine and float the teeth
Remove a shoe
Explain open castration procedure

**Production animals (bovine, ovine and caprine)**
Demonstrate procedure for:
rumenotomy
claw amputation
Caesarian section

REPRODUCTION

Canine and feline
Examine for pregnancy
Collect a semen sample and examine it
Perform AI
Do an obstetric examination

Equine
Swab mare for infectious diseases
Swab stallion for CEM
Distocia
Confirmation of pregnancy

Production animals (bovine, ovine and caprine)
Examine for pregnancy:
Rectal pregnancy diagnosis on a cow;
Sheep ultrasound scan
Collect a semen sample
Examine semen sample and interpret results
Conduct a breeding soundness evaluation on a bull/ram or cow/ewe
Perform AI
Perform a closed castration
Perform epidural anaesthesia
Do a vaginal examination
Do an obstetric examination
Assemble foetotomy equipment for use in dystocia and demonstrate use

ANAESTHESIOLOGY

Formulate an anaesthetic protocol for a canine, feline, equine, bovine, etc

Canine and feline
Know and be able to identify the different components of an anaesthetic machine with its circuits
Select the correct size and place an endotracheal tube

**Equine**
Local anaesthesia

**Production animals (bovine, ovine and caprine)**
Demonstrate:
- nerve block and tourniquet for dehorning
- nerve block for teat surgery
- nerve block for caesarian section
- I/V block for claw surgery

**PATHOLOGY/VETERINARY PUBLIC HEALTH (VPH)**
Perform a post mortem