



AVTDI DIAGNOSTIC IMAGING SKILLS LIST

Section A

General Radiography

- Perform the following diagnostic quality, radiographic studies.
- Demonstrate knowledge of basic anatomy, margins/landmarks and correct positioning for the radiographic study.
- Demonstrate execution of the study (including appropriate exposure settings and restraint technique)

Candidates must demonstrate knowledge and mastery of 75% of the skills listed in Section A (General Radiology), in either small animal, large animal or a combination of both.

Small Animal (Canine/Feline)	Skill #	Date Performed	Species	Modality	Patient ID / Hospital ID	Signed
Thorax	A1					
Thorax DV	A2					
Thorax humanoid view	A3					
Abdomen	A4					
Abdomen horizontal beam	A5					
Femur	A6					
Tibia/fibula	A7					
Stifle	A8					
TPLO	A9					
TTA	A10					
Longbone	A11					
Humerus	A12					
Elbow	A13					
OFA or flexed elbow	A14					
Antebrachium	A15					
Horizontal beam extremity	A16					
Carpus	A17					
Tarsus	A18					
Manus/pes	A19					
Shoulder	A20					
Scapula	A21					
Skyline of shoulder or stifle	A22					
Stress/flexed/extended of a joint	A23					



Obliques of a joint	A24					
Skull	A25					
Mandibular or maxillary intraoral	A26					
Cervical spine	A27					
Thoracolumbar spine	A28					
Lumbosacral spine	A29					
Pelvis	A30					
OFA or PennHip pelvis	A31					
Small Animal (Exotics)	Skill #	Date Performed	Species	Modality	Animal ID / Hospital ID	Signed
Whole-body (or thorax or abdomen)	A32					
Whole-body (or thorax or abdomen) (second species)	A33					
Whole-body (or thorax or abdomen) (third species)	A34					
Pectoral limb/wing	A35					
Pectoral girdle (H-view)	A36					
Pelvic limb	A37					
Large Animal	Skill #	Date Performed	Species	Modality	Animal ID / Hospital ID	Signed
Elbow	A38					
Shoulder	A39					
Radius	A40					
Femur	A41					
Pastern	A42					
Fetlock	A43					
Distal phalanx/hoof	A44					
Carpus	A45					
Tarsus	A46					
Splint bones	A47					
Stifle	A48					
Pelvis/hip	A49					
Cervical spine	A50					
Guttural pouch	A51					
Larynx/pharynx	A52					
Nasal	A53					
TMJ	A54					
Maxilla/mandible	A55					



Poll	A56					
Dorsal spinous processes (withers)	A57					
Thorax	A58					
Abdomen	A59					

Section B

Advanced Imaging and Contrast Examinations

- Demonstrate knowledge of common conditions/disease processes associated with the imaging study.
- Demonstrate an understanding of basic patient risks associated with the imaging study.
- Demonstrate knowledge of basic anatomy, scan margins/landmarks and proper positioning for the imaging study.
- Demonstrate execution of the study including setting modality specific parameters.
- Demonstrate knowledge of contrast administration and contraindications if applicable.
- Candidates must demonstrate knowledge and mastery of 50% of the skills listed in Section B (Advanced Imaging and Contrast Examinations).
- Skills in Section B (Advanced Imaging and Contrast Examinations) may be duplicated ONLY if a different modality is used.

Advanced Imaging/Contrast Exam Skills	Skill #	Date Performed	Species	Modality	Animal ID / Hospital ID	Signed
Perform a skull examination	B1					
Perform a nasal/sinus/orbit examination	B2					
Perform an inner ear examination	B3					
Perform a mandibular/TMJ or dental arcade examination	B4					
Perform a brain examination	B5					
Perform a thoracic or lung examination	B6					
Perform a thoracic or lung examination	B7					



(second species)						
Perform a thoracic angiography examination	B8					
Perform an abdominal examination	B9					
Perform an abdominal examination (second species)	B10					
Perform an abdominal angiography examination	B11					
Perform a brachial plexus examination	B12					
Perform a cervical (soft tissue) / neck examination	B13					
Perform a cervical spine examination	B14					
Perform a thoracolumbar spine examination	B15					
Perform a lumbosacral spine examination	B16					
Perform a stifle examination	B17					
Perform an elbow examination	B18					
Perform a shoulder examination	B19					
Perform a pelvic examination	B20					
Perform a carpal examination	B21					
Perform a tarsal examination	B22					
Perform a metacarpal or proximal/middle phalanx examination	B23					
Perform a distal phalanx examination	B24					
Perform a navicular examination	B25					
Perform a suspensory ligament examination	B26					



Perform a tendon examination	B27					
Perform a thyroid examination	B28					
Perform a cardiac examination	B29					
Perform a first pass cardiac examination	B30					
Perform a trans-colonic or trans-splenic portal examination	B31					
Perform a GFR renal examination	B32					
Perform a mucociliary clearance examination	B33					
Perform a hepatobiliary examination	B34					
Perform an optical examination	B35					
Assist with or perform a cystogram or urethrogram	B36					
Assist with or perform an esophogram	B37					
Assist with or perform an upper GI barium study	B38					
Assist with a myelogram	B39					
Assist with or perform an intravenous pyelogram/urogram	B40					
Assist with or perform a tracheal or tracheal stenting procedure	B41					
	Skill # Duplicated	Date Performed	Species	Alternate Modality	Animal ID / Hospital ID	Signed
Duplicate Skill Different Modality						
Duplicate Skill Different Modality						
Duplicate Skill Different Modality						
Duplicate Skill						



Duplicate Skill Different Modality						
Duplicate Skill Different Modality						

Section C

Supplemental Skills/Nursing and Pharmacology

- Candidates must demonstrate knowledge and mastery of 50% of the skills listed in Section C (Supplemental Skills/Nursing and Pharmacology).

Supplemental Nursing Skills	Skill #	Date Performed	Species	Modality	Animal ID / Hospital ID	Signed
Demonstrate use of positioning or restraint devices for hands free radiography	C1					
Demonstrate knowledge and use of digital imaging storage.	C2					
Demonstrate the ability to export or email digital images	C3					
Demonstrate the ability to identify and correct for a technique-based imaging artifact	C4					
Demonstrate the ability to identify and correct for a movement related imaging artifact	C5					
Demonstrate the ability to identify and correct for an anatomical related imaging artifact	C6					
Demonstrate the correct use of a portable x-ray unit	C7					
Correctly label oblique	C8					



radiographic images						
Assist with or perform imaging guided fine needle aspirate	C9					
Prepare slides for cytology	C10					
Assist with or perform imaging guided tru-cut biopsy	C11					
Prepare samples for histology	C12					
Demonstrate knowledge and use of modality compatible anesthetic and monitoring equipment	C13					
Demonstrate knowledge of modality specific safety for patient	C14					
Demonstrate knowledge of modality specific safety for personnel	C15					
Demonstrate knowledge of patient dose reporting and recording	C16					
Perform an MPR or 3D reconstruction	C17					
Use a power injector for an imaging study	C18					
Assist with an interventional imaging study	C19					
Perform an emergency shutdown procedure or spill safety clean	C20					
Perform an imaging guided cystocentesis	C21					
Assist with or perform an imaging guided abdominocentesis	C22					
Assist with or perform an imaging guided thoracocentesis	C23					



Assist with an imaging guided pericardial tap	C24					
Assist with an imaging guided bone biopsy	C25					
Assist with an imaging guided soft tissue/organ biopsy	C26					
Demonstrate patient preparation for an imaging study	C27					
Perform quality control of imaging machine	C28					

I, the undersigned, declare that I have read the entire AVTDI application packet. I further attest that the above-named applicant has achieved the AVTDI definition of mastery for the above skills that are marked with my signature.

_____ / _____

Printed Name and Degree

Signature

Please provide the names and credentials of all persons who have signed this form attesting to your mastery of advance skills in clinical practice.

A qualified candidate will have demonstrated advanced expertise and ability in the field of Diagnostic Imaging. AVTDI requires that a boarded veterinary specialist or credentialed veterinary technician/nurse specialist (VTS) attest to your knowledge and mastery of the skill. Each person verifying your tasks must complete the bottom of the skills list form to validate their signature. AVTDI has the right to contact any person that has verified a skill. Skills that are



marked as mastered must include at least one case number associated with the skill (if applicable).

AVTDI defines mastery as: the candidate can perform the task safely and consistently, without being coached or directed, no less than 3 times. Mastery requires having performed the task in a wide variety of patients and situations.

Candidates must demonstrate knowledge and mastery of 75% of the skills listed in Section A (General Radiology), in either small animal, large animal or a combination of both, 50% of the skills listed in Section B (Advanced Imaging and Contrast), and 50% of the skills listed in Section C (Nursing and Pharmacology/Supplemental Imaging).

General Radiology:

Total skills (Small Animal: Canine/Feline/Exotics) (#) 37, Mastered skills (#) _____ Percentage reached _____ (%)

OR

Total skills (Large Animal) (#) 28, Mastered skills (#) _____ Percentage reached _____ (%)

OR

Total skills (Combination) (#) 65, Mastered skills (#) _____ Percentage reached _____ (%)

Advanced Imaging and Contrast:

Total skills (#) 41 Mastered skills (#) _____ Percentage reached _____ (%)

Nursing and Pharmacology/Supplemental Imaging:

Total skills (#) 28 Mastered skills (#) _____ Percentage reached _____ (%)

I (printed name) _____ verify the above information and following checklist is true to the best of my ability.

Signature of applicant Date

License number State in which credential is held