AEVNT ADVANCED SKILLS LIST

All qualified candidates will have demonstrated advanced equine veterinary nursing skills. In their performance of their duties and responsibilities as an equine veterinary nurse technician, all candidates shall demonstrate expertise in the majority of the following areas of advanced skills. Advanced skills may only be performed on an equine patient. Acceptable equine species are *Equus caballus (horse), Equus asinus (donkey) and any hybrid thereof i.e. mule and hinny*. All qualified candidates must show proficiency in 100% of skills in Category 1 and 75% of the skills in categories 2-13 listed.(which is equal to 146 skills out of the total remaining 193 skills) Questions about or referencing to the skills list can be done so by category and skill number. For example skill 1.6 is "Perform catheterization of a jugular vein", skill 4.3 is "Demonstrate foal folding". Number references should not be used in the case logs.

• In the performance of their duties and responsibilities as an equine veterinary nurse, an AEVNT shall show competency in the following Advanced Skills:

1. Basic Core Skills

Skill		DVM or VTS-EVN Signature
1.	Demonstrate proper and safe restraint of equine patients including the use of physical restraint devices, including but not limited to, shanks and twitches	
2.	Perform proper foal restraint techniques	
3.	Load and unload injured, compromised or sick equine patient in a horse trailer using proper safety techniques	
4.		
5.	Administer parenteral medications intramuscularly, intravenously, & subcutaneously	
6.	Perform catheterization of a jugular vein	
7.	Be knowledgeable in the performance of a thorough dental examination, including aging of the horse	
8.	Apply & use mouth speculums	
9.	Set up and assist with a dental float procedure	
10	. Perform a sheath cleaning	

11. Demonstrate working knowledge and	
administration of recommended	
vaccination & deworming schedules (as	
recommended by the AAEP)	
12. Demonstrate a working knowledge and	
understanding of equine terms and	
terminology through communication,	
application of skills and performance of	
duties	
13. Demonstrate a working knowledge and	
understanding of equine anatomy and	
physiology through communication,	
application of skills and performance of	
duties	
14. Demonstrate ability to identify an	
equine with nutrition concerns (body	
conditioning scoring)	
15. Demonstrate working knowledge of	
equine pharmacology	

2. Equine Nutrition

Skill		DVM or VTS-EVN Signature
1.	Assist with client education in equine	
	nutrition	
2.	Demonstrate total (& partial) parenteral	
	nutrition administration techniques	
3.	Demonstrate a working knowledge of	
	feeds ie. nutritional supplements etc.	
4.	Recognize different types of hay and	
	their nutritional differences	
5.	Recognize different types of grains	
	including oats, sweet feeds, and other	
	pellets and their nutritional differences	

3. Reproduction and Genetics

Skill		DVM or VTS-EVN Signature
1.	Prepare a mare for breeding exam (prep	
	of the perineum)	
2.	Assist with artificial insemination	
3.	Calibrate & operate computerized	
	sperm motility analyzer	
4.	Perform semen collection using mount	
	mare & or phantom mare	

5. Prepare endometrial & testicular	
biopsies (for histological sectioning & staining)	
6. Prepare semen extender for cool	
shipment	
7. Prepare semen for freezing semen	
8. Prepare solutions and transport media	
for flushing embryos	
9. Safely handle breeding stallions for	
natural cover, semen collection, etc.	
10. Safely handle mares (including	
ovariectomized mares) during semen	
collection	
11. Set up and assist with standing flank	
oocyte aspirations and transfer	
12. Set up and assist with uterine infusion	
& lavage	
13. Standardize & use pH meter	
14. Standardize & operate osmometers	
15. Assist & prep for normal foaling	
delivery, dystocia, or C-section	
delivery	

4. Foal Care

Skill		DVM or VTS-EVN Signature
1.	Perform foal emergency set – up &	
	receiving	
2.	Perform foal feeding via nasogastric	
	tube	
3.	Demonstrate foal folding	
4.	Demonstrate foal naval umbilicus care	
	techniques	
5.	Perform milk collection on mares	
6.	Perform nasogastric intubation	
7.	Place and maintain indwelling feeding	
	tubes	
8.	Reposition recumbent foal	
9.	Perform proper foal restraint techniques	
10	. Demonstrate knowledge & set up for	
	ICU foal care	
11	. Demonstrate knowledge of and	
	recognition of signs of imminent	
	foaling by mare	
12	. Assist with foaling, both routine and	
	dystocia	

5. Pharmacology

Skill		DVM or VTS-EVN Signature
1.	Identify and maintain list and proper	
	inventory control of all drugs, supplies,	
	equipment needed for an equine	
	practice (fixed as well as ambulatory)	
2.	Demonstrate a working knowledge of	
	race track and performance / sport	
	horse drugs and supplies, including	
	withdrawal times, rules regulations &	
	resources	
3.	Demonstrate knowledge of controlled	
	substances, keeping a log and the rating	
	system (Class I – V)	

6. Laboratory Diagnosis

Skill	DVM or VTS-EVN Signature
Properly collect diagnostic specimens	- Company of the Comp
for analysis (i.e. urine, blood, feces,	
cells, tissue, specimens for cytology)	
2. Perform an IgG assessment	
3. Perform a blood gas analyzer quality	
control	
4. Demonstrate adequate blood gas	
analyzer usage – obtain, measure &	
interpret (normal vs. abnormal)	
5. Perform arterial blood sample	
collection techniques	
6. Perform blood culture techniques	
7. Be knowledgeable regarding the	
regulations and proper procedure for a	
coggins (EIA) test & health certificate	
(proper collection & paperwork)	
8. Perform a CBC (manual/analyzer)	
9. Demonstrate knowledge in the evaluation	
of blood donor cross – match results &	
determination of the best donor	
10. Perform microbiology tests to include cultures & sensitivities	
11. Perform fecal examination using	
multiple methods	
12. Safely package lab specimens for	
shipment to outside labs according to	
federal regulations	

7. Anesthesia

Skill		DVM or VTS-EVN Signature
Perform endot	tracheal tube placement &	Č
management	1	
2. Perform ventil	lator set – up &	
	of anesthetic gases.	
3. Maintain & us	se equine specific	
diagnostic mo	nitoring equipment	
4. Perform set –	up & interpretation	
(normal vs. ab	onormal) of capnography	
5. Direct arterial		
	up & blood gas	
-	(normal vs. abnormal)	
	ectrocardiogram – attach	
1	y, understand basic	
interpretation		
	(normal vs. abnormal)	
/. Demonstrate r	re- breathing bag usage	
Domonstrata nure	ing anasthasia skills	
	ing anesthesia skills including the following:	
	knowledge of analgesic	
drugs – dosago		
	knowledge of anesthetic	
agents and ind	•	
	knowledge of CRI	
	administration	
11. Demonstrate k	knowledge of drugs for	
cardiac arrest		
12. Demonstrate k	knowledge of paralytic	
agents		
13. Demonstrate k	knowledge of reversal	
agents		
	knowledge of synthetic	
· · ·	rtonic saline, blood, &	
	ns in the equine	
	knowledge of the use of	
	onate and calicum	
	knowledge of the use of	
	cs and Inotropes	
	knowledge of the use of	
Guaifenesin (C		
18. Assist with loo anesthesia	cai and regional	
	sk induction of a foal	
	racheal intubation	
20. I chiunn nasut	rachear intubation	

8. Surgical Assistance

Skill	DVM or VTS-EVN Signature
1. Perform suction set – up & use	
2. Perform pre – operative patient	
preparation and induction assistance	
3. Perform/assist with post operative	
patient recovery	
4. Properly apply head & tail ropes for	
recoveries	
5. Properly place recovery hood	
6. Perform re –intubation (guide tube)	
7. Assist with an intercostal block	
8. Be knowledgeable on sterile fields and	
how to assist in a sterile environment	
9. Be knowledgeable on precautions to	
take with a contaminated surgery	
10. Demonstrate set up & use of	
electrocautery unit	
11. Demonstrate surgical laser set up &	
usage	
12. Operate hoist using safety techniques	
for both personnel & patient	
13. Demonstrate a knowledge of proper	
positioning & padding for procedures	
14. Set up, operate, clean & troubleshoot	
laparoscopic equipment	
15. Set up, operate, clean & troubleshoot	
arthroscopy equipment	
16. Safely handle & assist with	
chemotherapy implants or injections	
17. Properly package instruments for cold,	
gas, & steam sterilization as well as	
troubleshoot sterilization units & be	
aware of shelf life of all methods of	
sterilization	

9. Nursing Care / Fluid Therapy

Skill		DVM or VTS-EVN Signature
1.	Place a sterile urinary catheter in a	
	stallion or gelding	
2.	Place a sterile urinary catheter in a	
	mare	

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3. Perform blood collection for	
transfusions of a blood product	
4. Administer whole blood to an equine	
patient	
5. Demonstrate adequate knowledge of	
cardio pulmonary resuscitation (CPR)	
techniques	
6. Perform administration of oral	
medications & understand the	
pharmacokinetics of such	
7. Perform lateral thoracic vein	
catheterization	
8. Perform IV fluid administration on both	
gravity dial system & pump	
9. Demonstrate working knowledge of	
fluid doses & ability to calculate	
appropriate volumes of additives, fluid	
doses & drip rates	
10. Perform oxygen cannula placement	
11. Perform oxygen set up & therapy as	
directed	
12. Perform "Piggy back" fluids	
administration & demonstrate	
knowledge regarding interactions	
13. Demonstrate padding & positioning the	
recumbent horse	
14. Have a working knowledge of the set	
up and nursing care and safety of a	
horse in a sling.	
15. Reposition recumbent equine adult	
16. Place pass gostaic tube for the purpose	
16. Place nasogastric tube for the purpose	
of stomach lavage & refluxing of patient & perform reflux procedure /	
administration of medications or liquids	
17. Obtain venous blood – cephalic vein	
18. Obtain venous blood – cephanc venii 18. Obtain venous blood – facial vein	
19. Demonstrate plasma selection & administration – set up, materials,	
monitoring (J_5 for endotoxemia, Hi-	
gamma IgG for FPT, botulism	
antitoxin, WNV)	
20. Administer eye medication through sub	
-palpebral lavage system	
21. Apply fluorescein dye to eye for	
examination per DVM orders	
22. Assist with an auriculopalpebral block	
22. Assist with an auticulopalpeoral block	

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23. Perform proper eye examination using	
gross observation as well as	
ophthalmoscope examination for the	
purpose of data collection, not to	
diagnose	
24. Demonstrate nebulizer (i.e. Aero	
Mask/flexineb) set up & usage and	
cleaning	
25. Demonstrate use of inhaler set up &	
usage	
26. Demonstrate equine patient euthanasia	
techniques	
27. Demonstrate a working knowledge of	
advanced bandaging & wound	
management techniques including	
splints, casts, wound preps, & aseptic	
techniques	
28. Perform central venous guide wire	
catheterization to include over the wire	
catheters being placed in the jugular,	
lateral thoracic or cephalic veins	
29. Recognize signs of sepsis &	
demonstrate knowledge of management	
30. Demonstrate a working knowledge of	
outpatient nursing, including client	
communications and status of patient.	
(medical facility & ambulatory)	
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10. Diagnostics / Treatment Procedures

Skill		DVM or VTS-EVN Signature
1.	Set up, operate & clean endoscopic	
	equipment	
2.	Assist with performing an endoscopic	
	examination	
3.	Place a nasogastric tube (adult horse)	
4.	Set up & assist with a cerebral spinal	
	tap	
5.	Assist with a re-breathing examination	
6.	Prepare & assist with an	
	abdominocentesis	
7.	Prepare & assist with an arthrocentesis,	
	thoracocentesis, or pericardiocentesis	
8.	Set up, operate, position & mark	
	correctly for distal limb radiographs	

9. Set up, operate, position & mark	
correctly for thoracic radiographs	
10. Set up, operate, position & mark	
correctly for abdominal radiographs	
11. Set up, operate, position & mark	
correctly for spinal radiographs	
12. Perform proper positioning & exposure	
of equine radiographs with a focus on	
those views normally taken for	
repository films or an extensive pre –	
purchase exam (multiple anatomical	
areas / multiple views)	
13. Demonstrate Doppler ultrasound set up	
& usage	
14. Prepare patient / assist with ultrasound	
exam of equine abdomen	
15. Prepare patient / assist with ultrasound	
examination of equine limbs	
16. Set up, operate & maintain ultrasound	
equipment	
17. Set up, operate & perform Shockwave	
therapy per DVM orders (under DVM	
supervision	
18. Participate in neurological exam &	
provide assistance	
19. Assist with lameness examinations on a	
variety of cases	
20. Lunge horses using proper technique &	
safety measures	
21. Assist with round pen lameness	
examination	
22. Properly remove horseshoes	
23. Demonstrate proper use of hoof testers	
24. Trot horse in hand for lameness exam	
25. Perform flexion tests	
26. Perform musculoskeletal exam for the	
purposes of data collection (under	
DVM supervision)	
27. Prepare for / assist with regional limb	
28. Prepare for / assist with ultrasound	
guided injections or biopsies	
29. Perform site prep for nerve block &	
sterile site prep for joint injection	
30. Prepare for / assist with muscle	
biopsies	
31. Safely handle & assist with	
chemotherapeutic agents administration	

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32. Assist with collection and preparation	
of biologic therapies (IRAP, stem cells,	
PRP)	
33. Assist/perform Magnetic Resonance	
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Imaging	
34. Assist/perform CT	
35. Perform proper CO2 handling & usage	
techniques	
36. Demonstrate proper liquid nitrogen	
handling techniques	
37. Have knowledge of nuclear	
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scintigraphy & be able to assist in	
procedures	
38. Prepare & assist with venogram /	
myelogram studies	
39. Be familiar with the recommendations	
for the use of & patient preparation for	
a hyperbaric O2 chamber	
40. Set up, operate & perform or assist with	
therapeutic ultrasound therapy per	
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DVM orders (under DVM supervision)	
41. Set up, operate & perform or assist in e-	
stim therapy per DVM orders	
42. Set up, operate & perform or assist in	
therapeutic laser treatment per DVM	
orders	
43. Assist with the usage of high speed	
land treadmill for diagnostic events or	
therapeutic modalities	
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44. Assist with or perform usage of water	
treadmill for diagnostic events or	
therapeutic modalities	
11. Equine Medical Emergencies	
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Skill	DVM or VTS-EVN Signature
1. Recognize & respond to equine specific	
veterinary medical emergencies	
2. Perform emergency colic set up &	
receiving	
3. Perform emergency dystocia set up &	
receiving	
4. Perform receiving & set up for uterine	
prolapse	

5. Perform receiving & set up for a

dummy / red bag foal

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6. Assist with & prepare for management	
of fracture patients	
7. Assist with & prepare for management	
of lacerations / traumas	
8. Assist with & prepare for neurologic	
emergencies (i.e. WNV, Rabies, EPM,	
EHV-1)	
9. Assist with pneumothorax &	
hemothorax chest tube placement	
10. Perform proper catheter placement in	
an emergency situation	
11. Perform blood collection for the	
purpose of transfusion	
12. Demonstrate a knowledge of any forms	
required & client communication in an	
emergency situation (i.e. euthanasia	
/surgery)	
13. Demonstrates knowledge regarding the	
process involved in collection of organ	
harvest (i.e. corneal, testicular or	
ovarian)	
14. Demonstrate a knowledge of receiving	
& set up for eye emergencies	
15. Demonstrate a knowledge of upper	
airway obstruction & be able to assist	
with tracheotomy placement	
16. Demonstrate how to provide proper	
triage over the phone recognizing an	
emergency from a regular visit	

12. Office Procedures / Basic Hospital Practice

Skill		DVM or VTS-EVN Signature
1.	Demonstrate a thorough knowledge of the	
	complexities & differences involved in the	
	management of an equine office, such as	
	communication, ownership, scheduling,	
	reports, ambulatory services, facilities and	
	basic financial information such as budgets	
2.	Demonstrate a working knowledge of	
	race track and performance / sport	
	horse regulations	
3.	Demonstrate knowledge of pre purchase	
	examinations: what is entailed, what to	
	look for, paperwork, procedures,	
	communication, legal requirements	

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4. Perform medical records management	
5. Record dictation of examination notes into medical records	
6. Properly record patient notes in SOAP format	
7. Demonstrate a working knowledge of export and import regulations for equines	
8. Demonstrate a working knowledge of equine passport requirements and paperwork completion	
9. Demonstrate a working knowledge of all required forms for insurance, PPE, surgery, euthanasia, to including all legalities	
10. Be familiar with all regulatory bodies (USDA, FEI, AVMA PLIT, USEF, State Racing boards) as related to equines	
11. Demonstrate a working knowledge & adherence to DEA & controlled substance handling, storage, and recording	
12. Effectively communicate veterinarian's concerns to the client & demonstrate competency in explaining pertinent information with the client	

13. Safety Management and Biosecurity

Skill		DVM or VTS-EVN Signature
1.	Demonstrate isolation stall set up	
2.	Demonstrate isolation stall cleaning	
3.	Demonstrate Biosecurity protocol set	
	up	
4.	Demonstrate knowledge regarding	
	USDA transport requirements	
5.	Demonstrate knowledge regarding	
	quarantine requirements & procedures	
6.	Demonstrate knowledge in the	
	transmission of diseases & pathogens	
7.	Demonstrate knowledge in zoonosis as	
	applied to equine species	
8.	Demonstrate knowledge of	
	management of rabies specimens	

Please note skills sheets must be signed by a Veterinarian who is a member of AAEP, a Veterinary diplomat employed in an equine practice, or a VTS-EVN.

Applicant Information		
Applicant Name (Print)		
Date		
	Signature Listing	
Signature		Initials
Name (print)		
Phone Number	Email	
Signature		Initials
Name (print)		
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Phone Number	Email	
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Signature		Initials	
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Credentials			
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Name (print) Credentials			
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Phone Number	Fmail		