AEVNT ADVANCED SKILLS LIST 2019

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 145 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:

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.	Properly use hoof picks, hoof rasps,	
	hoof nippers, and hoof knife	
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	

1. Basic Core Skills

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. 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
1.	Properly collect diagnostic specimens	
	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
1.	Perform endotracheal tube placement	
	& management	
2.	Perform ventilator set – up &	
	administration of anesthetic gases.	
3.	Maintain & use equine specific	
	diagnostic monitoring equipment	
4.	Perform set – up & interpretation	
	(normal vs. abnormal) of capnography	
5.	Direct arterial blood pressure	
	equipment set – up & blood gas	
	interpretation (normal vs. abnormal)	
6.	Perform an electrocardiogram – attach	
	leads correctly, understand basic	
	interpretation & advanced	
	interpretation (normal vs. abnormal)	
7.	Demonstrate re- breathing bag usage	
	monstrate nursing anesthesia skills	
	ecific to equine including the following:	
8.	Demonstrate knowledge of analgesic	
	drugs – dosages & usages	
9.	Demonstrate knowledge of anesthetic	
10	agents and induction drugs	
10	Demonstrate knowledge of CRI	
	calculations & administration	
11	Demonstrate knowledge of drugs for	
10	cardiac arrest	
12	Demonstrate knowledge of paralytic	
10	agents	
13	Demonstrate knowledge of reversal	
1 /	agents	
14	Demonstrate knowledge of synthetic	
	colloids, hypertonic saline, blood, & their indications in the equine	
15	*	
15	Demonstrate knowledge of the use of sodium bicarbonate and calicum	
16	Demonstrate knowledge of the use of	
10	anticholinergics and Inotropes	
	antichonnergies and motiopes	

17. Demonstrate knowledge of the use of Guaifenesin (GG)	
18. Assist with local and regional anesthesia	
19. Perform a mask induction of a foal	
20. Perform nasotracheal intubation	

8. Surgical Assistance

Skill		DVM or VTS-EVN Signature
1.	Perform suction set – up & use	<u> </u>
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	
17	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	

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	l
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	L
7.	Perform lateral thoracic vein	
	catheterization	<u></u>
8.	Perform IV fluid administration on	
	both gravity dial system & pump	ļ
9.	Demonstrate working knowledge of	
	fluid doses & ability to calculate	
	appropriate volumes of additives, fluid doses & drip rates	
10	. Perform oxygen cannula placement	ŀ
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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 nasogastric tube for the purpose	<u> </u>
	of stomach lavage & refluxing of	
1	patient & perform reflux procedure /	
	administration of medications or	
	liquids	
17.	. Obtain venous blood – cephalic vein	
	. Obtain venous blood – facial vein	
	. Demonstrate plasma selection &	
	administration – set up, materials,	
L	monitoring (J_5 for endotoxemia, Hi-	l
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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	
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	
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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	1
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)	L
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	
32. Assist with collection and preparation	
of biologic therapies (IRAP, stem	
cells, PRP)	
33. Assist/perform Magnetic Resonance	
Imaging	
34. Assist/perform CT	
35. Perform proper CO2 handling & usage techniques	
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36. Demonstrate proper liquid nitrogen	
handling techniques	
37. Have knowledge of nuclear	
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	
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	
44. Assist with or perform usage of water	
treadmill for diagnostic events or	
therapeutic modalities	

11. Equine Medical Emergencies

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	
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5. Perform receiving & set up for a	
dummy / red bag foal	
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

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	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	
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	5	
6.	Demonstrate knowledge in the		
	transmission of diseases & pathogens		
7.	Demonstrate knowledge in zoonosis as	.S	
	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 _____

Applicant Signature _____

Signature Listing

Signature		Initials	
Name (print)			
	Date		
Phone Number	Email		
Signature		Initials	
Name (print)			

Credentials	Date		
		Initials	
Name (print)			
Phone Number	Email		
Signature		Initials	
Name (print)			
Credentials	Date		
Signature		Initials	
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Signature		Initials	
Name (print)			
Phone Number	Email		
Signature		Initials	
Name (print)			

Credentials	Date
Phone Number	Email