



Animal Production Science & Technology

Available Certifications:

PA Beef Quality Assurance Certification
Dairy Leaders of Tomorrow
Youth Pork Quality Assurance Program

OSHA Certification- Agriculture
AI Training

Complete Task List:

Task Number	Description	Hours	Level
<i>*Local Task List</i>			
VA100	LCCTC Orientation & Safety		
VA101	Interpret LCCTC school rules, regulations, & attendance requirements.		
VA102	Illustrate school layout, resources, & evacuation procedures.		
VA103	Orientation to general course objectives.		
VA104	Orientation to course rules & regulations.		
VA105	Identify class dress code.		
VA106	Interpret grading procedure.		
VA107	Interpret clinical experience guidelines and procedures.		
VA108	Define "Right to Know".		
VA200	Orientation to Careers and Practices in Production Animal Science		
VA201	Explain career options available immediately after graduation and those that require further education.		
VA202	Understand and identify the difference between companion animals and production animals and how this difference affects a producer's choice to treat or euthanize an ill animal.		
VA203	Explain procedures and processes of euthanasia done by both veterinarian and farmer.		
VA204	Identify various pieces of equipment commonly used in production animal science.		
VA300	Animal Safety and Handling		
VA301	Identify and exhibit proper hand washing when handling animals.		
VA302	List recommended personal protective equipment for working around large animals.		
VA303	Identify the possible safety issues with each large animal species.		
VA304	Enter the pen of a cow, sheep, goat, horse, alpaca, chicken and/or pig using given safety precautions.		
VA305	Safely catch a horse, cow, sheep, goat, and/or pig in a stall, pasture and/or arena setting.		
VA306	Halter a horse using different types of halters.		
VA307	Halter a cow/calf using different types of halters.		
VA308	Halter a sheep.		
VA309	Halter a goat.		
VA310	Lead a horse.		
VA311	Lead a cow/calf.		
VA312	Lead a sheep.		
VA313	Lead a goat.		
VA314	Tie a horse, cow, goat, sheep, and alpaca safely. Tie a horse in cross-ties.		

Task Number	Description	Hours	Level
VA315	Exercise a horse with a lunge line.		
VA316	Discuss and utilize psychological, physical and chemical restraint.		
VA317	Identify and demonstrate use of supplementary restraint devices: nose tongs, hip bar, lip twitches, lip chain, stocks, hobbles.		
VA318	Restrain a sheep or alpaca for shearing.		
VA319	Restrain a pig with a nose snare		
VA320	Restrain a cow for various treatments, demonstrate how to cast a cow.		
VA321	Restrain and clip an animal		
VA322	Return a horse, cow, goat, sheep, alpaca, chicken, and/or pig to an enclosure safely.		
VA323	Properly hold and restrain a Rabbit		
VA324	Trim toenails of a Rabbit		
VA325	Halter an Alpaca		
VA326	Lead an Alpaca		
VA400	Animal Husbandry Skills		
VA401	Properly clean pens and dispose of manure accordingly.		
VA402	Provide clean appropriate bedding to animal.		
VA403	Feed and water animals according to their needs.		
VA404	Keep animals clean and groomed.		
VA405	Identify current trends in biosecurity, animal management, and procedures to maintain a biosecure facility		
VA406	Disinfect shoes and clothing after each farm visit		
VA500	Health Management		
VA501	Recognize, identify and evaluate the effects of common diseases, parasites and poisons.		
VA502	Describe preventative animal health and treatment techniques.		
VA503	Develop a preventative health management plan for a specific species.		
VA504	Interpret animal health product labels.		
VA505	Demonstrate safe and proper application and administration of animal health products.		
VA506	Administer oral, topical, ophthalmic, and rectal meds.		
VA507	Administer SQ and IM injections; observe the placement of an IV.		
VA508	Determine if an animal is lame and on what leg.		
VA509	Prepare a syringe for injections.		
VA510	Follow treatment orders for the care of sick animals.		
VA511	Identify proper species, age, and procedure for dehorning.		
VA512	Identify the proper species, age, and procedure for castration.		
VA513	Point out animals in a herd that are showing signs of illness.		
VA514	Take vital signs on both sick and healthy animals and be able to identify what is normal.		
VA515	Record an animal's vital signs.		
VA516	Identify the proper species, age and procedure for docking tails.		
VA517	Observe hoof care of various animals		

Task Number	Description	Hours	Level
VA518	Health Management Practices of dairy, beef, equine, swine and poultry		
VA519	Herd Management Practices of dairy, beef, equine, swine and poultry		
VA520	Observe various facilities for various species; design a facility for a specific species.		
VA600	Principles of Animal Nutrition		
VA601	Identify various feeds/grains and feed additives.		
VA602	Explain the nutritional purpose of each feed ingredient.		
VA603	Describe the difference between a complete feed and a balanced feed.		
VA604	Identify common feed pathogens (mold, etc.) and/or poisonous plants.		
VA700	Identify current trends in estrus detection		
VA701	Identify current stage of ovulation in a breeding animal.		
VA702	Discuss the process and reasons for embryo transfer in different species.		
VA703	Explain the methods of semen collection for each production species.		
VA704	Observe semen collection from a bull and/or stallion.		
VA705	Artificially inseminate a cow.		
VA706	Identify the length of reproductive cycle and gestation for each species.		
VA707	Breeding/Reproductive Management		
VA800	Dairy		
VA801	Identify and discuss the common breeds of dairy cattle.		
VA802	Identify the basic anatomy of a dairy cow.		
VA803	Facilities and Equipment		
VA804	Describe personal conduct and code of ethics regarding fitting/showing techniques for specific species		
VA805	Practice the FARM Program and Body Condition Score dairy cattle (DACQA)		
VA806	Demonstrate the use of a CMT Kit		
VA807	Demonstrate the use of on farm antibiotic milk test.		
VA808	Identify basic milking practices		
VA809	Administer teat treatments on a milking animal		
VA810	Identify basic causes of mastitis		
VA811	Milk a cow		
VA900	Equine		
VA901	Identify and discuss common breeds of horses.		
VA902	Identify basic anatomy of a horse.		
VA903	Facilities and Equipment		
VA904	Describe personal conduct and code of ethics regarding fitting/showing techniques for specific species		
VA905	Producer Responsibilities and Practice		
VA906	Place leg wraps on a horse		
VA907	Place a medicated hoof wrap or poultice wrap on a horse		
VA908	Pick a horse's hooves		
VA909	Assist in jogging a horse for a lameness exam		
VA910	Assist in flexion tests for a horse		

Task Number	Description	Hours	Level
VA911	Wrap a horse's tail		
VA912	Bath and groom a horse		
VA914	Approximate a horse's age by dentition		
VA1000	Swine		
VA1001	Identify and discuss common breeds of swine.		
VA1002	Identify basic anatomy of a pig.		
VA1003	Obtain Pork Quality Assurance Certification		
VA1004	Describe personal conduct and code of ethics regarding fitting/showing techniques for specific species		
VA1005	Obtain Transport Quality Assurance Certification		
VA1006	Identify cuts of meat		
VA1007	Animal ID - Ear notching		
VA1100	Beef		
VA1101	Identify and discuss common breeds of beef cattle		
VA1102	Identify basic anatomy of beef cattle		
VA1103	Obtain Beef Quality Assurance Certification		
VA1104	Describe personal conduct and code of ethics regarding fitting/showing techniques for specific species		
VA1105	Producer Responsibilities and Practice		
VA1106	Obtain Masters of Beef Advocacy Certification.		
VA1200	Poultry		
VA1201	Identify and discuss common breeds of poultry.		
VA1202	Identify basic anatomy of a chicken.		
VA1203	Identify basic anatomy of a turkey.		
VA1204	Identify basic anatomy of a duck		
VA1205	Identify the basic anatomy of a goose		
VA1206	Describe personal conduct and code of ethics regarding fitting/showing techniques for specific species		
VA1207	Prepare a sample for lab analysis		
VA1208	Draw blood from a wing		
VA1209	Incubate and candle eggs		
VA1210	Grade eggs		
VA1211	Perform vent and cloacal swabs		
VA1300	Sheep and Goats		
VA1301	Identify and discuss common breeds of sheep.		
VA1302	Identify and discuss common breeds of goats.		
VA1303	Identify basic anatomy of a sheep.		
VA1304	Identify basic anatomy of a goat.		
VA1305	Determine presence of parasites by performing a fecal float		
VA1306	Describe personal conduct and code of ethics regarding fitting/showing techniques for specific species		
VA1307	Obtain FAMACHA Certification		
VA1400	Agriculture Business Management		

Task Number	Description	Hours	Level
VA1401	Examine agribusiness career pathways.		
VA1402	Examine entrepreneurship principles for agribusiness.		
VA1403	Identify functions, role and purpose of management in a business.		
VA1404	Analyze supply and demand, the relationship between them and price and how they affect management decisions.		
VA1405	Construct and analyze financial statements.		
VA1406	Identify possible types and sources of credit.		
VA1407	Design and conduct an employee selection process.		
VA1408	Identify methods to improve employee relations and employee self improvement.		
VA1409	Identify species, breeds and associated products and uses.		
VA1410	Research and utilize breed associations, commodity groups and associated groups.		
VA1411	Evaluate a group of animals for a specific purpose.		
VA1412	Interpret trial performance data based on species/industry criteria.		
VA1413	Departments of Agriculture-state and federal.		
VA1414	Local Groups - FFA, 4-H, Co-op Extensions.		
VA3513	13.2.11.A- Apply effective speaking and listening skills used in a job interview.		
VA3514	13.2.11.B- Apply research skills in searching for a job. (CareerLink, O-NET, Networking, Newspapers, Professional Associations, Reource Books (OOH), etc.		
VA3515	13.2.11.C-Develop and assemble, for career portfolio placement, career acquisition documents, such as, but not limited to: job application, letter of appreciation, Cover Letter, Resume, Post-Secondary Application, etc.		
VA3516	13.2.11.E- Demonstrate, in the career acquisition process, the application of essential workplace skills/knowledge, such as, but not limited to: Communication, Health and Safety, Resilience, Integrity, Problem Solving, Teamwork and Communication.		
VA3517	13.3.11.A- Evaluate personal attitudes and work habits that support career retention and advancement, with focus on Resilience, Integrity, Problem Solving, Communication, Teamwork.		
VA3518	13.3.11.B-Evaluate team member roles and describe and illustrate active listening techniques: clarifying, encouraging, reflecting, restating, and summarizing.		
VA3519	13.3.11.C- Evaluate conflict resolution skills as they related to the workplace.: constructive criticism, group dynamics, managing leaderships, mediation, negotiation, problem solving.		
VA3520	13.3.11.D- Develop a personal budget based on career choice, such as but not limited to : fixed/variable expenses, gross pay, net pay, saving, taxes.		