

100 LEVEL COMPETENCY TASKS		Small Animal Care & Management Auth: Dean M. Warren											
100	Introduction to Small Animal Care & Management												
	101	Describe the history of animals on earth, important evolution markers and domestication											
	102	Describe the importance of the small animal industry											
	103	Describe how organisms are classified using taxonomy and dichotomous charts											
	103a	Describe methods of classifying animals by means other than scientific classification											
	103b	Outline the classification of agriculture animals according to use											
	104	Explain the importance of safety when working and playing with animals											
	105	Identify diseases that can be zoonotically transmitted and how to prevent these infections											
	106	List guidelines for safety when handling dangerous chemicals and when working with small animals											
	107	Describe proper handling and restraint when working with cats											
	107a	Removal from cage/carrier and carrying											
	107b	Restraining the head and removal of a collar											
	107c	Restraining the legs											
	108	Describe proper handling and restraint when working with dogs											
	108a	Describe techniques for handling dogs at different life stages and in different situations											
	108b	Handling caged dogs or dogs in a run											
	108c	Lifting and carrying dogs											
	109	Describe proper handling and restraint when working with guinea pigs											
	109a	Removal from cage, holding and carrying											
	110	Describe proper handling and restraint when working with rabbits											
	110a	Removal from cage, holding and carrying											
	111	Describe proper handling and restraint when working with chinchillas											
	111a	Removal from cage, holding and carrying											
	111b	Properly give a dust bath											
	112	Describe proper handling and restraint when working with ferrets											
	112a	Removal from cage, holding and carrying											
101	Small Animal Industry												
	113	Describe what responsible pet ownership is, options available and how to select an animal											
	114	Describe the benefits pets have to humans											
	115	Define euthanasia and its importance to a pet owner											
	116	Define animal rights and animal welfare and be able to compare and contrast the two											
	117	Compare the issues concerning animal rights vs. animal welfare											
	118	Explore careers in small animal care and describe the nature of the work, salaries and education/training requirements											
	118a	Identify career options in animal science											
	118b	Compare specific jobs with required educational levels											

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	118c	Identify ways to develop leadership skills							
	118d	List some of the qualities employers look for in employees							
	118e	Explain and practice good interviewing skills							
	118f	Create a resume for a specific job							
	118g	Create a cover letter for a specific job							
	118h	Create an E-portfolio that compiles your job related experiences							
	118i	Complete at least 3 job shadows							
	118j	Write reflection papers for each job shadow							
	118k	Visit at least 3 post-secondary institutions							
	118l	Visit/experience/complete at least 2 continuing education seminars							
119		Define nutrition and nutrient							
120		List the six basic nutrient groups							
121		Discuss the difference between a ruminant and non-ruminant and the importance of nutrients to their diet							
102		Describe different species of small animals and how to care for them							
	122	Discuss the proper methods of feeding and exercising, training, grooming, health care and various diseases of dogs.							
	122a	Bathe Animal							
	122b	Blow-Drying							
	122c	Brushing and Combing							
	122d	Clip Nails							
	122e	Dog Husbandry & sex determination							
	123	Discuss the proper methods of feeding, grooming, health care and various diseases of cats							
	123a	Brushing and Combing							
	123b	Clip Nails							
	123c	Cat Husbandry & sex determination							
	124	Discuss the uses for rabbits, breeds, housing and equipment needs, nutrient requirements and various diseases that affect rabbits.							
	124a	Brushing and Combing							
	124b	Clip Nails							
	124c	Rabbit Husbandry & sex determination							
	125	List common management practices for maintaining health and common diseases and ailments of hamsters.							
	125a	Hamster Handling, Restraint & sex determination							
	125b	Hamster Husbandry							
	126	Describe the characteristics of, practice for general care, common diseases and ailments of gerbils.							
	126a	Gerbil handling, restraint and sex determination							
	126b	Gerbil Husbandry							
	127	Describe the characteristics of, the common methods of feeding and caring for and common diseases and ailments of rats.							
	127a	Rat handling, restraint and sex determination							
	127b	Rat Husbandry							

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	203b	Complete 2 job shadow experiences								
	203c	Reflect upon job shadowing experiences and develop/update SMART Goals								
204		Discuss the hazards related to working with animals and the importance of safety and biosecurity								
	204a	Identify the organizations that regulate safety and biosecurity standards in US animal industry								
205		Describe environmental problems related to animal production, production practices that decrease pollution								
	205a	Describe a manure/nutrient management plan								
206		Describe and outline appropriate ways to dispose of dead animals, consumer concerns and the government agencies that regulate animal agriculture								
201	Anatomy, Physiology, Feeding and Nutrition									
	207	Name and describe the functions of the skeletal system								
	208	Name and describe the functions of the muscular system								
	209	Name and describe the functions of the respiratory system								
	210	Name and describe the functions of the circulatory system								
	211	Name and describe the functions of the digestive systems (ruminant and non-ruminant)								
	212	Describe the classes of nutrients needed by animals based on their digestive system								
	213	Explain the classes of additives and nutrients needed and sometimes added to feed								
	214	Differentiate between roughage and concentrated feedstuffs								
202	Animal Reproduction									
	215	Explain how genetics relates to improvement in animals and how animal characteristics are transmitted								
	216	Explain sex determination in mammals and birds								
	217	Discuss the use of biotechnology in animal science and how this compares to genetic engineering								
	218	Explain the current role of biotechnology in animal science, the objections/concerns and what the future of agricultural biotechnology looks like								
	219	Explain common breeding systems and their advantages and disadvantages in production agriculture								
	220	Explain the importance of breeding management								
	221	Compare and contrast crossbreeding and straightbreeding systems								
203	Management of Production Animals									
	222	Describe the characteristics of the beef industry including breeds and types of operations								
	223	Describe the facilities, feeding techniques, health and safety measures used in the management of beef cattle								
	224	Evaluate beef animals for the selection of market and breeding animals and utilize appropriate terminology when doing so								
	224a	Finishing the end of a rope, quick-release knot, bowline, double half hitch and tomfool knot								
	224b	Build a rope halter for cattle or sheep and build a temporary halter								
	224c	Describe how to operate a chute, halter cattle and identify common restraint tools and equipment								
	225	Develop a plan for training, preparing and showing production animals								
	225a	Identify common grooming tools								
	226	Describe the modern swine industry, trends and major characteristics of breeds used								

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	227	Discuss breeding and farrowing management of swine							
	228	Explain swine feeding management, housing and equipment needs for swine operations.							
	229	Describe diseases and parasites of swine and the merits of the Pork Quality Assurance Plus Program (PQA Plus)							
	230	Explain the importance of selecting superior breeding stock and select breeding stock accordingly							
	231	Describe the different criteria for swine and rank classes of market and breeding animals from most to least desirable							
	231a	Describe how to use pig boards, castration restraint and use of a snout snare							
	232	Describe the major characteristics of sheep and goats							
	233	Classify sheep and goats by type and use, identify common breeds of sheep and goats							
	234	Discuss the characteristics of the sheep and goat industry							
	235	Outline a management system for sheep and goats and apply this to the different production systems used in the sheep and goat industry							
	236	Describe the common diseases and parasites of sheep and goats and outline a program to reduce loss from disease and parasites in sheep and goats							
	236a	Describe how to collar and lead a goat and place a goat in Stanchion							
	237	Describe the characteristics of the horse industry, breeds, types and the selection process of choosing a horse.							
	238	Describe good management practices for horses and facilities required							
	239	Identify common diseases and parasites in horses and how to prevent them							
	240	Describe the characteristics of horse behavior and the general rules for handling horses							
	240a	Describe how to safely halter, lead and tie a horse							
	240b	Explain how to apply a chain over the nose, under the chin and lip chain.							
	240c	Describe why twitches are used and how to apply a hand twitch, mechanical twitch and hands-free twitch							
	241	Explain methods of training a horse and different types of riding							
	242	Explain the different types of poultry production and the two main types of poultry products							
	243	Identify and explain different types of poultry							
	244	Describe feeding practices for poultry and the housing types used in commercial operations							
	245	List parasites and diseases of poultry							
	244	Describe the management of backyard poultry flocks							
	245	Summarize trends in poultry and egg consumption, and how these products are marketed							
	246	Outline consumer concerns about poultry products							
	247	Explain the classes of poultry, meat and eggs and judge the quality of these products							
	248	Describe the characteristics of the dairy industry and trends in dairy farming and production							
	249	Outline the development of the modern dairy industry							
	250	Define the characteristics of milk and how the breeds of dairy cattle impact this							
	251	Describe the breeding methods and systems in dairy operations, housing and feeding programs.							
	252	Describe procedures for herd health and manure management in dairies							
	253	Identify the parts of a dairy cow, select desirable animals for dairy production							
	254	Use a PDCA Dairy Cow Unified Score Card to evaluate dairy cattle and use industry terminology and phrases to describe dairy traits							
	255	Procedure for obtaining medical history of large animals and the parts of a physical examination							
204	Other Animals Used in Agriculture Production								

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	338	Define terms associated with energy, the courses of energy nutrients, functions of energy nutrients and symptoms of energy nutrient deficiencies							
	339	Describe the difference in energy requirements of horses lactating, pregnancy and work							
	340	Explain how fiber, protein and amino acids play a role in horses diet							
	341	Explain how a horses nutrient requirements change over time based on age and purpose							
	342	Explain the difference between a roughage and concentrate and their sources							
	343	Make feeding recommendations or management suggestions based on a horses stage and activity level							
	342a	Read feed labels and select feeds							
	344	Calculate the nutrient level of a mixed feed using a feed composition table							
	344a	Develop a feed ration							
	345	Discuss the addition of vitamins and minerals to a ration							
305	Health Management								
	346	Define terms associated with disease conditions, resistance and immunity							
	347	Describe immunization and how a vaccination program relates to immunity							
	348	List signs of disease, diseases caused by viruses, bacteria and noninfectious diseases							
	349	Identify zoonotic disease of horses, digestive disease and respiratory disease							
	350	Discuss Laminitis and colic							
	351	Describe the signs of good health in a horse, the objectives of first aid and relate BCS to health							
	351a	Evaluate horses BCS and make recommendations							
	352	Describe the life cycle of a typical internal parasite with an intermediate host							
	353	Describe the symptoms of a parasite-infected horse							
	354	Identify common parasites that affect horses and their life cycles							
	355	Name the general categories of chemicals used to treat horses with parasites							
	355a	Perform a fecal analysis and egg count							
	355b	Administer anthelmintic to horses							
	356	Discuss how parasites affect horses of different stages and how sanitation and management practices can reduce and control parasites							
	357	Describe common methods for managing horses including fly control, pasture and forages and maintaining records							
	358	Develop a manure management plan							
	358	Describe the internal and external parts of the hoof							
	359	Identify tools used in shoeing and hoof care							
	360	Name common problems of the feet and how proper hoof care can correct or help these problems							
306	Facilities and Equine Behavior								
	361	Recommend an environment for horses that addresses welfare, safety, labor and cost							
	362	Identify space, ventilation, feed and water requirements for equine facilities							
	363	Discuss reasons for fencing horses and common fence types							
	363a	Develop and build an equine facility model							
	364	Name and describe 10 behavior categories							

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	365	Describe the horse's sense of vision, touch, smell and hearing and how these impact equine behavior							
	366	Discuss the gregarious nature of horses and how that can influence their training							
	367	Develop a fitness training program for horses							
307	Business Aspects and Career Opportunities								
	368	Identify terms related to horse industry business management							
	369	List reasons for keeping records, distinguish between the types of records							
	370	List guidelines for building and maintaining a good credit standing							
	371	List the essential components of all budgets							
	372	List six types of credit							
	373	Explain management considerations in planning and implementing an equine business							
	374	Explain important human relations skills and contracts							
	375	List three types of insurance needed in equine businesses							
	376	Describe the thinking skills needed for the workplace of today, traits of an entrepreneur and how to obtain these skills							
	377	List competencies needed in the workplace, guidelines for choosing a job							
	378	Describe the 10 reasons an interview may fail							
	379	List 10 soft skills important in the workplace							
	380	Describe occupational safety from the employers perspective and from the employees perspective							