MODULE AGR2070: EQUINE 1 (MATERIALS & PROCESSES)

Level: Intermediate

Theme: Technology and Applications

Prerequisite: None

Module Description: Students demonstrate practical skills and approved practices in providing for the daily care of a horse, focusing attention on the origin and history of horses, anatomy and conformation, types and breeds, handling and feeding practices, and basic health care; and they identify related career opportunities.

Module Parameters: Access to a horse and appropriate equine housing/fencing structures.

Off-campus learning is required to support the development of practical skills in the care of equine; consultation with a work site supervisor ensures that relevant safety considerations are addressed and that student learning meets or exceeds the learner expectations in this module.

It is recommended that students have a minimum of 50 hours of previous experience in horse handling and horse care prior to commencing the study of this module.

See the *Off-campus Education Guide for Administrators, Counsellors and Teachers* (Alberta Education, 1995) for further information regarding off-campus learning.

Note: Learner expectations in AGR2070 Equine 1 and AGR3070 Equine 2 are introductory to competencies developed in the two-year Equine Science Diploma Program at Olds College, Alberta. Opportunities for recognition of prior learning may be considered upon admission to this post-secondary program.

Supporting Modules: CTR2210 Workplace Safety (Practices) [Career Transitions Strand]
AGR1030 Production Basics

Because of the practical nature of this module, students need a general knowledge of accepted practices and potential hazards when performing tasks related to the care of equine. See Planning for Instruction in Section C for further information on student safety.

MODULE AGR2070: EQUINE 1 (MATERIALS & PROCESSES) (continued)

Curriculum and Assessment Standards

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
The student will:	*Assessment of student achievement should be based on:*	
• describe the significance, origin and conformational features of the horse	• completing a research project that examines the significance, origin and conformational features of the horse. Research to address: – social and economic significance – origin and history – conformational features of the head, neck, fore limb and hind limb – factors determining balance. *Assessment Tool* *Research Process: Origin, History and Conformation of the Horse, AGR2070–1* *Standard* *Complete all components of research to a standard of 2 on the rating scale*	15
• identify the types, breeds and characteristics of horses	• given access to information concerning the types and breeds of horses, a presentation or report (oral, written or visual) that describes: – distinguishing characteristics of draft horses and light horses – dominant/recessive traits and selection criteria relevant to specific breeds of draft horses and light horses – commonly used systems of breeding, including inbreeding, linebreeding and crossbreeding. *Assessment Tool* *Presentations/Reports: Intermediate Level, AGRPRE–2* *Standard* *Complete the presentation or report to a standard of 2 on the rating scale*	10

MODULE AGR2070: EQUINE 1 (MATERIALS & PROCESSES) (continued)

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
The student will:	*Assessment of student achievement should be based on:*	
• demonstrate practical skills and approved procedures for horse handling, feeding and health care	• demonstrating practical skills within each of the following areas of daily horse care: – handling and restraint – feeding practices – health care practices. *Assessment Tool* *Task Checklist: Equine 1, AGR2070–2* *Lab Assessment: Animal Care, AGRLAB–ANM* *Standard* *Achieve a minimum performance rating of 2 in each area of task and lab assessment* • maintaining an anecdotal record of daily horse care tasks performed. *Assessment Tool* *Log/Record of Animal Care, AGRLOG–ANM* *Standard* *Complete all sections of the log/record for daily horse care tasks performed over a negotiated/ contracted period of time*	70
• describe career opportunities relevant to the care, breeding and training of horses	• given current information on careers that involve the care, breeding and training of horses, completing a research project on one or more related career opportunities. *Assessment Tool* *Career Search: Intermediate Level, AGRCAR–2* *Standard* *Complete research to a standard of 2 on the rating scale*	5
• demonstrate basic competencies.	• observations of individual effort and interpersonal interaction during the learning process. *Assessment Tool* *Basic Competencies Reference Guide and any assessment tools noted above*	Integrated throughout

MODULE AGR2070: EQUINE 1 (MATERIALS & PROCESSES) (continued)

Concept	Specific Learner Expectations	Notes
Significance, Origin and Conformation	*The student should:* • identify different types of benefits associated with horses; e.g.: – pleasure – companionship – performance – breeding • describe the origin and history of horses, and factors that lead to domestication • identify and describe the characteristics and functions of basic external parts of a horse • analyze and explain conformational features of major body parts; e.g.: – head and neck – fore limb and hind limb • identify factors determining a horse's balance.	Invite guest speakers from horse breeding associations. Individual/group research and presentation. Draw, label and list functions of specific external parts. Construct models; relate conformational features to specific applications.
Types and Breeds	• identify and describe the distinguishing characteristics of draft horses and light horses • identify breeds of draft and light horses that are suited to specific applications • explain how characteristics of the horse are passed from generation to generation, and commonly used breeding systems; e.g.: – inbreeding – linebreeding – crossbreeding • explain heredity principles relevant to a specific breed of horse; e.g.: – dominant and recessive traits – selection criteria and procedures.	Contact breed associations for breed promotion material and guest speakers.

MODULE AGR2070: EQUINE 1 (MATERIALS & PROCESSES) (continued)

Concept	Specific Learner Expectations	Notes
Handling, Feeding and Health Care	*The student should:* • identify environmental factors that need to be considered in providing care for a horse; e.g.: – weather and climate – land, soil and water characteristics • demonstrate appropriate techniques for handling a horse; e.g.: – approaching a horse – leading a horse – cleaning a horse's feet – grooming a horse – tying a horse – restraining a horse • perform approved horse feeding practices by providing: – water requirements – roughage needs – concentrate needs • describe the importance of a regular feeding schedule	Invite a local veterinarian to discuss accepted handling and care techniques. List the tasks required to provide daily equine care; **emphasize approved safety practices for working with horses**. Discuss the importance of, and challenges related to equine foot care. Examine techniques for trimming bridle path, muzzle and possibly ears. Discuss the process of desensitization. Discuss the functional and nutritional value of water; identify water requirements for varying equine activities and conditions. Explain the role of grains, high protein concentrates and other additives in a horse's diet; identify forages used in equine nutrition. Discuss advantages/ disadvantages of commercially prepared horse feeds. Calculate and recognize weights/volumes of feeds. Design and calculate balanced rations; establish and implement a regular feeding schedule.

Concept	Specific Learner Expectations	Notes
Handling, Feeding and Health Care (continued)	*The student should:* • identify and compare characteristics/symptoms of a healthy horse and an ill horse • monitor and assess vital signs of a horse, recognizing abnormalities • demonstrate appropriate care for leg wounds on a horse • describe appropriate care of a horse with: – colic – respiratory disease • identify health factors that indicate the need for veterinarian services • describe policy, legislation and safe practices relevant to providing horse care.	Consider: • visual signs • vital signs • habits/behaviours. Utilize the expertise of a local veterinarian. Research topical leg preparations and their correct use; discuss the healing process and complications of wound healing. Discuss symptoms of infectious disease and treatment of infected horses; identify equine vaccines available and vaccination protocols. Establish protocols for equine medical emergencies. Identify contents of an equine first aid kit.
Career Opportunities	• research careers and the range of occupational opportunities that involve the care, breeding and/or training of horses; e.g.: – breeding and production – health sciences/veterinary medicine – stable management – professional training/coaching – race track management • describe current employment opportunities based on employment statistics • outline trends in equine science, and future career opportunities.	Plan for individual/group research and presentations. Research information regarding: • job description • employment markets • education/training • wage expectations. Arrange/facilitate: • information interviews • work study/experience • job shadowing. Contact the "Career Hotline" (telephone: 1–800–661–3753). See the National Occupational Profiles (NOC) in Section H: Linkages/Transitions.