



Great Oaks Equine Science and Management Essential Skills Profile

This profile provides an outline of the skills required for successful completion of this career program. Additional information is located on the Great Oaks website at <https://hs.greatoaks.com/future-students/essential-skills-for-high-school-programs> and selecting the corresponding career program.

Recommended WorkKeys® Scores for Equine Science and Management

Applied Mathematics – 3
Workplace Documents – 4
Graphic Literacy – 4

*Practice tests and more information at <https://jobseeker.ohiomeansjobs.monster.com/Assessments/Home.aspx>

Recommended Essential Skills to Successfully Complete the Program

Rating Key:	Low = Slightly Essential	Medium = Essential	High = Very Essential
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Key Vocational Factors		Rating
Visual Acuity	The ability to detect differences/details visually	Medium
Depth Perception	The ability to detect the physical distance/depth of objects in space and time	Medium
Oral Communication	The ability to express/explain ideas	High
Written Communication	The ability to communicate in a written format and record information accurately	Medium
Physical Mobility/Strength	Bending, lifting more than 50 pounds, standing, lifting cages and equipment	High
Eye-hand Coordination	The ability to use tools	Medium
Auditory Acuity	The ability to detect differences in pitch and sound	Low

Worker Trait Skills		Rating
Ability to get along with others		Medium
Ability to work independently, without close supervision		High
Ability to work toward work including tasks of minimal interest		Medium
Ability to work accurately, recheck and correct work, to an industry standard		Medium
Dependability (Attendance and Punctuality)		High
Ability to follow and retain:		
Multistep oral instructions		High
Written instructions/technical manuals - multistep		Medium
Simple to complex diagram instructions		Low
Visual models or demonstrated instructions		Medium
Ability to use tools of trade (reins, pet grooming products, leashes or leads, harnesses or its accessories, domestic pet training kits, etc.)		High

Ability to use numerical data (count, measure, compute, etc.) in applied setting	Low
Ability to discriminate between objects of similar:	
Size	Medium
Shape	Medium
Color	Medium
Spatial Relationship	Medium
Ability to organize work process/follow defined procedures	Medium
Ability to follow sequence or to determine sequence of actions to a successful conclusion.	High
Dexterity (fine finger)	Medium
Instructing: Teaching others how to do something	High
Learning Strategies: Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things	High
Speaking: Talking to others to convey information effectively	High

Applied Mathematics Skills * Recommended WorkKeys® Scores 3	
Understanding of numbers	Work with whole numbers and decimals
Mathematical calculations	Use one-step calculations to solve problems, add or subtract either positive or negative numbers, multiply or divide positive numbers
Solving problems with math	Convert fractions to a decimals and decimals to fractions, convert familiar units (money or time), add prices of multiple things and calculate change
Workplace Documents Skills * Recommended WorkKeys® Scores 4	
Complexity	Straightforward with some longer sentences and may contain conditional situations
Information and detail	Mostly informative and can be several details
Vocabulary	Mostly common with some advanced words
Document type	Informational, instructional and policy-type documents
Graphic Literacy Skills * Recommended WorkKeys® Scores 4	
Using charts/graphs	Locate information in charts or graphs
Interpreting information	Compare two or more pieces of information, identify trends/patterns, make inference and identify graphics that accurately represents data

Additional Recommended Abilities

Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
Oral Expression	The ability to communicate information and ideas in speaking so others will understand.
Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences.

Knowledge Required in Equine Science and Management Field

Customer and Personal Service	Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.
Education and Training	Knowledge of principles and methods for curriculum and training design, teaching and instruction for individuals and groups, and the measurement of training effects.
Psychology	Knowledge of human behavior and performance; individual differences in ability, personality, and interests; learning and motivation; psychological research methods; and the assessment and treatment of behavioral and affective disorders.

Additional Considerations

Must be dependable	Must like working with large animals
Must like getting dirty and wearing gloves	Does not mind animal and chemical smells
Must not be allergic to pet, animal, and hay	Does not mind handling unfamiliar animals

Equine Science and Management Work Activities

Train horses or other equines for riding, harness, show, racing, or other work, using knowledge of breed characteristics, training methods, performance standards, and the peculiarities of each animal.	Assist training programs to develop or maintain desired animal behaviors for competition, entertainment, obedience, security, riding, or related purposes.
Interact with animals to familiarize them to human contact.	Use oral, spur, rein, or hand commands to condition horses to carry riders or to pull horse-drawn equipment.
Cue or signal animals during performances.	Handle horses including grooming, training horse behavior and monitoring horse health.
Retrain horses to break bad habits, such as kicking, bolting, or resisting bridling or grooming.	Feed or exercise animals or provide other general care, such as cleaning or maintaining holding or performance areas.
Observe animals' physical conditions to detect illness or unhealthy conditions requiring medical care.	Evaluate animals to determine their temperaments, abilities, or aptitude for training.
Advise animal owners regarding the purchase of specific animals	Place tack or harnesses on horses to accustom horses to the feel of equipment.
Administer prescribed medications to animals.	Organize or conduct animal shows.
Keep records documenting animal health, diet, or behavior.	Evaluate animals for trainability and ability to perform.

Technology

Word processing software	Project management software
Presentation software	Database user interface and query software
Calendar and scheduling software	Animal sales software

Certifications Students Can Earn

Credential	Ohio Graduation Points
Elanco (iCEV) Fundamentals of Animal Science	6
NHJTCA Equine Management & Evaluation	4
Industrial Forklift Operation	2
OSHA 10 – Veterinary	1
CPR/First Aid	1

Possible College Credits

College Credit Plus (CCP)	The CCP program provides Ohio high school students an opportunity to complete college courses and earn transcribed credit.
Career Technical Assurance Guides (CTAGs)	CTAGs award college credit for career-technical coursework to students who complete an approved course and earn a qualifying score on the end of course exam.
Articulated Credit	Some Great Oaks career-technical programs have agreements with colleges where student can earn credit toward a specific degree.

Please speak with your school counselor, Great Oaks counselor and/or career technical instructor to learn more about these potential opportunities.

Possible Career Pathways

Barn hand/groom	Farrier
Trainer	Therapeutic Riding Instructor
Barn Manage	Blood Stock Agent
Equine Product Sales	Large Animal Veterinarian