## CAREER PATHWAYS FOR ADULT EDUCATION

# **ABOUT CAREER PATHWAYS**

Career Pathways combine education, work readiness and job training to attain necessary skills and credentials for specific in-demand occupations or industries. Career Pathway maps illustrate how students can move along a career path in a specific occupational area from adult education through post-secondary or advanced job-training programs and into employment. To advance along a career pathway more quickly, explore opportunities to participate in education and training concurrently. It is suggested that this map be used in conjunction with information on specific education and training programs in Wyoming or in your local area.

Agriculture

Natural Resources Agriculture Career Cluster

**Sector Description:**

This sector involves the production, processing, marketing, distribution, financing and development of agricultural

commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant

and animal products or resources. Farmers and ranchers populate the Wyoming landscape and these

traditional occupations continue to be popular throughout the State. .

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **Sample Entry or Certificate Options**

Agriculture Equipment Operator

 **Sample Advanced or Degree Options**

Veterinary Technician

Soil & Plant Scientist

Veterinary Assistant

 **Sequential -or- Concurrent**

#### Adult Education

-Core Skills: Reading, Writing, Math, Science

-English Language Skills

-Career Exploration & Planning

-High School Equivalency Preparation

-Employability Skills & Digital Literacy

-Integrated Education and Training

-Work Experience Trainings

Veterinarian

Food Science Technician

Farm/Ranch Worker

Farm & Ranch Managers

Ecologist

Animal Caretaker

##### Additional Occupational Options Customized Pathway-Jobs/Courses

* Biological Technician
* Agricultural Engineer
* Natural Science Manager
* Hydrologic Technician
* Logging Workers

## CAREER PATHWAYS FOR ADULT EDUCATION- Agriculture

**ADULT EDUCATION-High School Equivalency (HSE)**

**Median Wages: $10.49 Hourly / $21,818 Annual**

Many jobs require a high school diploma/equivalent. The official HSE tests (GED or HiSET)

require that students demonstrate proficiency in English, reading, writing, math, science

and social studies.

**SKILLS**

* read for comprehension
* understand math and its practical applications to the career
* using scientific rules & methods to solve problems
* effective oral and written communication skills
* strong critical thinking abilities: use of logic and reasoning to identify strengths and

weaknesses of alternative solutions, conclusions or approaches to problems.

* Digitally literate: proficient in Word, Excel and Powerpoint

VETERINARY ASSISTANT

Median Wages: $16.70 Hourly / $34,740 Annual

**Description**: Feed, water, and examine pets and other nonfarm animals for signs of illness, disease, or injury in laboratories and animal hospitals and clinics. Clean and disinfect cages and work areas, and sterilize laboratory and surgical equipment.

**Job Duties**

* Hold or restrain animals during veterinary procedures
* Fill medication prescriptions & administer medication, immunizations, or blood plasma to animals as prescribed by veterinarians
* Collect laboratory specimens, such as blood, urine, or feces, for testing
* Administer anesthetics during surgery & monitor the effects on animals

**FARM/RANCH WORKER**

**Median Wages: $23.72 Hourly / $ 49,337 Annual**

**Description:**  Attend to live farm, ranch, open range or aqua cultural animals that may include cattle, sheep, swine, goats, horses and other equines, poultry, rabbits, finfish, shellfish, and bees. Attend to animals produced for animal products, such as meat, fur, skins, feathers, eggs, milk, and honey.

**Job Duties**

* Feed & water livestock and monitor food & water supplies
* Examine animals to detect illness and provide medical treatment as needed
* Inspect, maintain, and repair fences, equipment, machinery, buildings, pens, yards
* Shift animals between grazing areas to ensure they have sufficient access to food
* Patrol grazing lands on horseback or using all-terrain vehicles.

**OTHER OCCUPATION**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Median Wages:**

**Description**:

**Job Duties**

**AGRICULTURE EQUIPMENT OPERATOR**

**Median Wages: $18.16 Hourly / $37,780 Annual**

**Description:** Drive and control equipment to support agricultural activities such as tilling soil; planting, cultivating, and harvesting crops; feeding and herding livestock; or removing animal waste.

**Job Duties**

* Load & unload crops or containers of materials, manually or using conveyors, hand trucks, forklifts or transfer augers
* Operate or tend equipment used in agricultural production, such as tractors, combines, and irrigation equipment
* Operate towed machines such as seed drills or manure spreaders to plant, fertilize, dust & spray crops

**VETERINARY TECHNICIAN**

**Median Wages: $18.38 Hourly / $38,240 Annual**

**Description:** Perform medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals. Prepare vaccines and serums for prevention of diseases. Prepare tissue samples, take blood samples, and execute laboratory tests, such as urinalysis and blood counts. Clean and sterilize instruments and materials and maintain equipment and machines.

**Job Duties**

* Administer emergency first aid, such as performing emergency resuscitation or other life saving procedures
* Collect, prepare, and label samples for laboratory testing, culture, or microscopic examination
* Perform dental work, such as cleaning, polishing, or extracting teeth
* Maintain controlled drug inventory & related log books
* Give enemas & perform catherizations, ear flushes, intravenous feedings, or gavages

**VETERINARIAN**

**Median Wages: $49.64 Hourly / $103,260 Annual**

**Description:** Diagnose, treat, or research diseases and injuries of animals. Includes veterinarians who conduct research and development, inspect livestock, or care for pets and companion animals

**Job Duties**

* Treat sick or injured animals by prescribing medication, setting bones, dressing wounds, or performing surgery
* Euthanize animals
* Operate diagnostic equipment, such as radiographic or ultrasound equipment, and interpret the resulting images
* Counsel and educate the public on euthanasia, diseases that can be spread from animals to humans