

Lesson



Exploring Careers in
Agricultural Mechanics and
Technology Systems

Interest Approach



Write the name down of a person you feel is has been successful in life.



Under that name write down the reasons or traits that made that person successful.

Vocabulary Terms



Adaptability




Personal skills




Practical Experience

Student Objectives

 Explain the importance of agricultural mechanics to the industry of agriculture.

 Identify the major areas of specialization within agricultural mechanics.

 Identify the skills needed to be successful in a career in agricultural mechanics.

Is agricultural mechanics important to the industry of agriculture?





Agriculture in the United States is becoming more and more mechanized every year.




Mechanization has been the key to reducing the labor and time required to produce the products needed to feed our growing population.

Is agricultural mechanics important to the industry of agriculture?

 Mechanics and service people are necessary to keep the machines and equipment operating for agribusiness operators and farmers.

 To agricultural producers and agribusiness's, mechanization systems that function properly are essential for business survival.

 Such a system may be the difference between profit and loss for the business owner.

Is agricultural mechanics important to the industry of agriculture?



For the farmer, reliable machinery may be the difference between getting a crop planted on time or not.

MAJOR AREAS OF SPECIALIZATION IN AGRICULTURAL MECHANICS

Agricultural Electrification, Power and Controls

Electrician
Electrician Assistant
Safety Technician
Service Company Representative

Agricultural Power Machinery

Equipment Deliveryperson
Equipment Mechanic
Farm Equipment Mechanic
Local Dealer
Machinery Setup Person
Parts Person
Salesperson
Service Representative
Tractor Mechanic

Soil and Water Mechanical Practices

Agronomist
Appraiser
Conservationist
Conservation Technician
Ecology Technician
Irrigation Operator
Manager
Soil Technician
Water Control Manager


Agricultural Mechanics, Construction, and Maintenance Skills


Construction Maintenance Worker
Lubrication Specialist
Machinery and Equipment Repairperson
Shop Foreperson
Safety Specialist

Agricultural Structures, Equipment, and Facilities

Agriculture Structure Contractor
Appraiser
Building Maintenance Supervisor
Construction Supervisor
Farmstead Planner
Waste Handling Specialist

What are the major areas of specialization within agricultural mechanics?

 Agricultural Electrification, Power, and Controls: electrician, electrician assistant, safety technician, service company representative.

 Agricultural Power Machinery: equipment delivery person, equipment mechanic, local dealer, parts person, salesperson, service representative.

What are the major areas of specialization within agricultural mechanics?



Soil and Water
Mechanical Practices:
agronomist, appraiser,
conservationist,
irrigation operator, soil
technician.

What are the major areas of specialization within agricultural mechanics?



Mechanics,
Construction, and
Agricultural
Maintenance Skills:
construction
maintenance worker,
shop foreperson,
safety specialist.






What are the major areas of specialization within agricultural mechanics?



Agricultural Structures, Equipment, and Facilities: structure contractor, appraiser, building maintenance supervisor, farmstead planner, waste handling specialist.

What skills are needed to be successful in a career in agricultural mechanics?

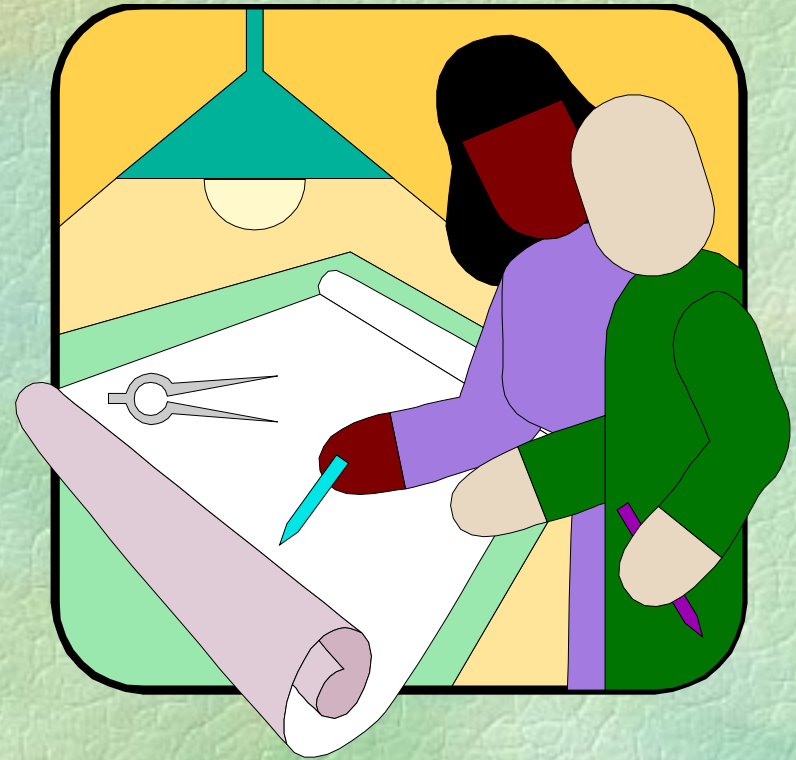
 Education - Most agricultural mechanics jobs require training in how to do the work.

-  Students can begin preparation in high school by taking courses in agricultural mechanics.
-  Then students may want additional training from a community college or a university.

What skills are needed to be successful in a career in agricultural mechanics?



Practical experience-
Activity that involves
observation of
practice, participation,
and training in a
specific job or event.



What skills are needed to be successful in a career in agricultural mechanics?

- ❏ Practical experience in agricultural mechanics work is important.
- ❏ Students may begin while in high school with part-time and summer jobs

What skills are needed to be successful in a career in agricultural mechanics?



Personal skills - Many kinds of personal skills are needed.

- Personal skills include the ability to get along with others, courtesy in dealing with others, and the ability to provide leadership.



What skills are needed to be successful in a career in agricultural mechanics?



Honesty, responsibility, and dependability are also essential for success.

- ☐ Employers want people who will get to work on time and put effort into the work.



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What skills are needed to be successful in a career in agricultural mechanics?



Personal appearance - Employers want their employees to dress and groom appropriately.

- Employees should dress neatly in clean, well-kept clothes.
- Proper safety clothing may need to be provided as well.

What skills are needed to be successful in a career in agricultural mechanics?



Adaptability - The ability to adjust to new or changed circumstances.

- ☒ People need to be able to adapt to changes.
- ☒ Agricultural mechanics work often changes as new developments become available.





Continuing education and training will be needed to keep up-to-date.

- ☒ Each individual has a personal responsibility to learn new techniques and new information.

Review and Summary

 What is the importance of agricultural mechanics to the industry of agriculture.

 List the five major areas of specialization within agricultural mechanics.

 List the five skills needed to be successful in a career in agricultural mechanics.