

Glossary

A

AC letters used to represent an alternating electrical current welding machine

AC/DC letters used to represent a welding machine that can use alternating or direct electrical current

accident unintentional harm

agriculture production of plants and animals, and related supplies, services, mechanics, products, processing and marketing

agriscience application of agricultural principles and new technologies

albumen protein that makes the white of the egg

annual plants that complete their life cycle within one growing season

assets possessions; items of value that a business owns

aveoli groups of tiny units where milk is produced within an animal's mammary system

B

backfire condition in which the torch flame momentarily burns back into the tip when oxy-gas cutting

bantams term that represents small sized breeds of chickens

barrow castrated male hog

biennial plants that complete their lifecycle in two growing seasons

biofuels fuels, such as ethanol and biodiesel, made from living things

biotechnology the manipulation or genetic engineering of living organisms or their components to create new products

boar male hog that has not been castrated

bovine general Latin term relating to cattle

broilers young meat chickens

brooding specialized care of chicks during the first few weeks of life

buck uncastrated male goat

bull uncastrated male beef animal

C

cabrito meat from a goat under 40 pounds live weight and not yet removed from the mother

calf young beef animal

capital items or inventory purchased or sold outside a one-year time period; non-current

capon castrated male chicken

carbohydrates simple organic compound that provides the body with energy

career clusters division of all jobs into 16 areas by the U.S. Department of Education

career pathways subdivisions of career clusters that further define a career by skills and knowledge

cashmere fiber taken from the undercoat of any goat breed other than the Angora

castrate removal of male testicles

chattel mortgage loan secured by moveable personal property rather than by land or permanent fixtures

chevon meat from an older goat

chevre goat cheese

chick young, immature chicken

chipping hammer used to knock away slag after welding

chlorophyll green pigment in leaves; needed for photosynthesis

cisterns holding area for milk within an animal's mammary system

climate environmental conditions such as humidity and wind

closed-faced type of sheep with wool on the face

cock mature male chicken that has not been castrated or caponized; rooster

cockerel young male chicken under one year of age

colostrum first milk a female animal produces after giving birth

colt male horse younger than three years old

combustible able to ignite easily and burn quickly; example, wood and paper

common house cat cat that is a mix of various breeds

complete protein food that provides all of the essential amino acids that humans require in their diet

composite breed breed formed from two or more established breeds

convenience store small store that stocks a limited number of food and household items

cow female beef or dairy animal that has given birth to a calf

cream portion of milk that rises to the top

crimp waviness of wool fibers

crossbred breeding together of two different breeds of animal within a species

cull to discard from a flock or herd

curds solid portion of milk after it is curdled and strained

current items or inventory purchased or sold within one year's time; operating

D

DC letters used to represent a direct electrical current welding machine

debeaking removal of the beak tip on young chicks

debt amount of money owed on an asset or investment

debt-to-equity ratio extent to which debt capital is being combined with equity capital

deciduous plants that lose their leaves in the autumn

depreciate decline in value over time

doe female goat

domestication process of animals being tamed by humans

dormant to slow or stop growing

dorsal stripe dark stripe along the spine of an animal

draft horse horse that is taller than 17 hands; used for heavy work

drake mature male duck

dry cow cow approximately two months before calving that has stop producing milk in preparation for birth

dual-purpose animals used for more than one purpose such as milk, meat, eggs, and fiber

duckling young duck weighing six to seven pounds

E

electrode holder clamp that grips the welding electrode

electrode metal welding rod coated with flux

emulsifiers substances that keep together liquids that tend to separate such as oil and water

entrepreneurship type of SAE that allows a student to own his or her own business

equine horse or member of the horse family

equity net worth; liabilities and debts against the SAE are subtracted from the SAE assets and investments

erect term for ears that stand up as opposed to droop

euthanized medically put to sleep

evergreens plants that keep their leaves and green color throughout the year

ewe female sheep of any age

exotic pet rare or unusual animal that is kept as a pet

expenses transactions where money is spent

experience one part of a total SAE program

exploratory type of SAE that allows a student to explore opportunities in the agriculture industry

F

farrow to give birth to a litter of pigs

feathers long, fine hair covering the lower legs of some animal breeds such as the Clydesdale horse

feral type of animal that descended from domestic animals now living in undomesticated areas

fiber diameter average diameter of the fibers in a fleece

filly female horse younger than three years old

flammable material with a flash point below 100°F

flash point temperature at which a material will burst into flames

flashback occurs when the flame burns back into the body of an oxy-gas torch

fleece all the wool taken from one sheep

flock group of chickens

flux provides a gas shield for the molten pool during welding

foal male or female horse under one year old

food processing steps involved in transforming raw ingredients into food products for consumers

fortified enhancing a food product with additional vitamins or minerals

G

gaggle group of geese

gander term for a male goose

gelding male horse older than three years of age that has been castrated

gestation amount of time from breeding to birth

giblets specialty poultry meats such as the heart, liver and gizzard

gilt immature female pig that has not given birth

Good Manufacturing Practices procedures that have been developed to ensure a safe food product as well as a safe working environment

goose specific term for a female goose

gosling young male or female goose

grades quality standards that are established by the United State Department of Agriculture

ground clamp clamp attached by a cable to the arc welder that completes the electrical current

H

hands measurement of horses; four inches

harvesting process of gathering mature crops from the area where they are grown or produced

Hazard Analysis of Critical Control Point management program designed to analyze food processing procedures from the raw material to the finished product

hazard situation that poses a danger

heat tolerance ability to withstand hotter climates

heifer young immature female that has not given birth

hen mature female chicken, duck or turkey

herding dogs dogs that have the instinct to herd other animals

homogenized process or state in which small particles are uniform and evenly distributed

hounds dogs that have the capability to track either by scent or sight

hydroponics plant growing method that uses a mineral nutrient water solution without soil

I

income transaction where money is gained

incubator device that regulates the environment so chicken embryos can develop properly

internship where a student works for someone, either for pay or for the experience; placement

inventory list of the items or assets a business owns

K

kerf slit in metal as a result of oxy-gas cutting

kidding process of goats giving birth

kids goat offspring

L

lactation milking period of an animal

lactose sugar naturally found in milk

lamb meat from a sheep younger than one year old

lanolin grease-like substance that naturally coats sheep's wool

lard fat from a pig

layers egg-producing chickens

liability money, goods and/or services for which you owe

light horse horse between 14.2 and 17 hands in height

litter group of pigs born from a sow

loam soil with approximately equal parts of sand, silt and clay

M

mammary system milk producing system within an animal, especially important for a dairy cow

mare female horse older than three years of age

marketing way in which a product is sold to a target audience; research and planning to develop the best approach for selling a product

median number in the middle of a group of consecutively listed numbers

metal inert gas welding method that uses a combination of electricity and an inert shielding gas; also known as MIG or GMAW

migratory worker hand labor who moves from place to place as harvesting occurs

minerals small rock particles in the soil

mohair fiber produced by Angora goats

multipurpose retailer offers consumers a place to buy food items as well as clothing, electronics, toys, hardware and other household items

mutton meat from a sheep older than one year

N

neutering process of preventing male animals from reproducing by removing the reproductive organs

non-current items or inventory purchased or sold outside a one-year time period; capital

non-sporting diverse breed of dog that ranges in terms of appearance, size and personality

non-synthetic natural fiber such as cotton and leather

O

offal parts of an animal after slaughter that are inedible by humans

open-faced type of sheep with no wool on the face

operating items or inventory purchased or sold within one year's time; current

organic matter humus; decaying material from living organisms found in the soil

oviduct reproductive tract of a female chicken

ovine general Latin term for sheep

oxidation combination of oxygen and iron in ferrous metals; examples, burning and rust

oxytocin hormone produced by an animal that signals the milk letdown reflex

P

parent material original matter from which soil particles are formed

pasteurization process of heating a food product to kill bacteria

peat moss partially decomposed plant matter; high nutrient and water retention capabilities

pelt hide from a slaughtered lamb or sheep with the wool still attached

perennial plant that grows season after season

perlite volcanic rock that has been crushed and heated to 1800°F

personal protective equipment equipment worn to protect you from injury while working

photosynthesis process of food production in plants

pine bark bark of pine trees broken into small pieces and used as a type of media

placement type of SAE where a student works for someone, either for pay or experience

points parts of an animal that are typically white; used to describe areas such as ears, nose, tail, and legs on some animals

polled animal naturally without horns

pony horse shorter than 14.2 hands

porcine general Latin term relating to all pigs

pork meat of pigs

poult young male or female turkey

poultry term used to describe domesticated birds that are kept for eggs or meat

principal actual amount borrowed on a loan

productively invested all asset costs including the initial investment plus other expenses on the asset

pullet young female chicken under one year of age

purebred cats pedigreed animal of unmixed lineage

purebred animal that has only the original breed within its bloodlines

R

ram male sheep that has not been castrated

requirements needs or necessities as in applying for a job

research type of SAE designed to expose students to the scientific side of agriculture

respiration plant process in which food produced through photosynthesis is used

retail sale of products for personal use or consumption

roan mixture of hair colors on an animal

rooster mature male chicken that has not been castrated or caponized; cock

S

saturated fat fat that is generally solid at room temperature, usually of animal origin

school-based enterprise student-managed, entrepreneurial program in the school setting; designed to imitate the work environment as closely as possible

scratching method of striking an arc that works by touching the electrode to the base metal like striking a match

service learning SAE where a student develops and manages a project for a school, community organization or non-profit organization

shearing process of shaving or clipping wool from a sheep's skin

shielded metal arc welding welding method in which an electrode is used; also known as stick welding or SMAW

slag layer of burned flux and impurities at the top of a weld

sow mature female hog that has farrowed a litter of pigs

spaying process of preventing female animals from reproducing by removing the reproductive organs

spent hen hen that no longer produces eggs

sphagnum shredded, dehydrated stems and leaves of acidic bog plants; type of peat moss

sporting dogs dogs which are known for their instincts in the woods and water

springer bred cow showing signs of pregnancy

stallion male horse older than three years of age that has not been castrated

staple length length of wool fibers

steer castrated male beef animal

stringer bead simplest type of welding bead where the electrode is moved in a straight line

supermarket large retail store that has between 25,000 and 35,000 food items commonly used in the home

T

tapping method of striking an arc that works by touching the electrode to the base metal and quickly raising it

terriers energetic and feisty breed of dog

tom mature male turkey past one year of age

topography variation of the earth's surface, such as elevation and slope

toy breeds small dogs that are known for their companionship

transaction exchange of money for the purchase or sale of assets or supplies

transpiration loss of water through plant leaf openings; sweating

tungsten inert gas welding method that uses a combination of electricity, inert gas and non-consumable electrode; known as TIG or GTAW

U

unsaturated fat fat that is generally liquid at room temperature, usually of plant origin

V

value-added increasing the value of a food due to the addition of ingredients or the processing that occurs

vermiculite heated mica compound used as an inorganic plant media

vertically integrated combination of processes into one company; example, Braum's Dairy

W

wean removal of young animals from their mothers

weaving movement of an electrode to make wider beads or control arc heat

welding arc light produced from welding

wether male sheep or goat that has been castrated

whey water portion of milk after it is curdled and strained

wholesale selling products in quantity to a buyer who then resells the product

wire brush used to remove slag, clean metal in preparation for welding or clean beads after welding

withers highest point on a horse's shoulder; point of height measurement

wool fiber taken from a sheep

working dogs dogs that have been developed to perform jobs such as protecting property or livestock, or pulling sleds

worsted fabric made from fine wool fibers at least three inches in length

Y

yield weight of wool fleece after it has been cleaned of lanolin, dirt and plant matter