**Pennsylvania FFA AG Technology/Mechanical Systems CDE**

**Tools and Materials Identification Test -**

**Instructions:** Tools/Materials will be numbered 1‑30. The contestant is to write the appropriate number in the space to the left of the tool/material.

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

School \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_45° pipe elbow

\_\_\_\_\_\_\_\_90° pipe elbow

\_\_\_\_\_\_\_\_Abrasive chop saw

\_\_\_\_\_\_\_\_Adjustable wrench

\_\_\_\_\_\_\_\_Allen wrench

\_\_\_\_\_\_\_\_Aviation snips

\_\_\_\_\_\_\_\_Ball peen hammer

\_\_\_\_\_\_\_\_Ball valve

\_\_\_\_\_\_\_\_Bar clamp

\_\_\_\_\_\_\_\_Bent nose pliers

\_\_\_\_\_\_\_\_Bolt cutters

\_\_\_\_\_\_\_\_Bolt die

\_\_\_\_\_\_\_\_Bolt tap

\_\_\_\_\_\_\_\_Bolt tap wrench

\_\_\_\_\_\_\_\_Brass Mallet

\_\_\_\_\_\_\_\_Brick jointer

\_\_\_\_\_\_\_\_Brick trowel

\_\_\_\_\_\_\_\_C clamp

\_\_\_\_\_\_\_\_Carriage bolt

\_\_\_\_\_\_\_\_Caulking gun

\_\_\_\_\_\_\_\_Cats Paw

\_\_\_\_\_\_\_\_Center punch

\_\_\_\_\_\_\_\_Chalk line reel

\_\_\_\_\_\_\_\_Chipping hammer

\_\_\_\_\_\_\_\_Circuit breaker

\_\_\_\_\_\_\_\_Clinometer

\_\_\_\_\_\_\_\_Closed end wrench

\_\_\_\_\_\_\_\_Cold chisel

\_\_\_\_\_\_\_\_Combination oil stone

\_\_\_\_\_\_\_\_Combination square

\_\_\_\_\_\_\_\_Combination wrench

\_\_\_\_\_\_\_\_Common nail

\_\_\_\_\_\_\_\_Compass saw

\_\_\_\_\_\_\_\_Compression tester

\_\_\_\_\_\_\_\_Concrete finishing trowel

\_\_\_\_\_\_\_\_Concrete float

\_\_\_\_\_\_\_\_Concrete screw

\_\_\_\_\_\_\_\_Coping saw

\_\_\_\_\_\_\_\_Cordless drill

\_\_\_\_\_\_\_\_Countersink

\_\_\_\_\_\_\_\_Cutting torch

\_\_\_\_\_\_\_\_Crows foot wrench

\_\_\_\_\_\_\_\_Deep socket

\_\_\_\_\_\_\_\_Diagonal cutting pliers

\_\_\_\_\_\_\_\_Dial caliper

\_\_\_\_\_\_\_\_Digital Tachometer

\_\_\_\_\_\_\_\_Drift punch

\_\_\_\_\_\_\_\_Drill press vise

\_\_\_\_\_\_\_\_Duplex receptacle

\_\_\_\_\_\_\_\_Electrical multimeter

\_\_\_\_\_\_\_\_Electrical pliers

\_\_\_\_\_\_\_\_Engineer’s hammer

\_\_\_\_\_\_\_\_Eye bolt

\_\_\_\_\_\_\_\_Face shield

\_\_\_\_\_\_\_\_Fence pliers

\_\_\_\_\_\_\_\_Fence staple

\_\_\_\_\_\_\_\_Finishing nail

\_\_\_\_\_\_\_\_Fish Tape

\_\_\_\_\_\_\_\_Flaring tool   
\_\_\_\_\_\_\_\_Flat Blade feeler gauge

\_\_\_\_\_\_\_\_Flathead wood screw

\_\_\_\_\_\_\_\_Flathead Screwdriver

\_\_\_\_\_\_\_\_Forester Bit

\_\_\_\_\_\_\_\_Framing square

\_\_\_\_\_\_\_\_Fuse puller

\_\_\_\_\_\_\_\_Gate valve

\_\_\_\_\_\_\_\_Gasket scraper

\_\_\_\_\_\_\_\_Glass cutter

\_\_\_\_\_\_\_\_Grease gun

\_\_\_\_\_\_\_\_Groove joint pliers

\_\_\_\_\_\_\_\_Ground fault circuit interrupter

\_\_\_\_\_\_\_\_Ground Clip

\_\_\_\_\_\_\_\_Hacksaw

\_\_\_\_\_\_\_\_Half round file

\_\_\_\_\_\_\_\_Hearing protector

\_\_\_\_\_\_\_\_Hose bib

\_\_\_\_\_\_\_\_Implant gun

\_\_\_\_\_\_\_\_Junction box

\_\_\_\_\_\_\_\_Lag screw

\_\_\_\_\_\_\_\_Level

\_\_\_\_\_\_\_\_Line level

\_\_\_\_\_\_\_\_Lineman’s pliers

\_\_\_\_\_\_\_\_Long nose pliers

\_\_\_\_\_\_\_\_Machine bolt

\_\_\_\_\_\_\_\_Machinist's vise

\_\_\_\_\_\_\_\_Mason hammer

\_\_\_\_\_\_\_\_Mason level

\_\_\_\_\_\_\_\_Masonry bit

\_\_\_\_\_\_\_\_Masonry nail

\_\_\_\_\_\_\_\_Micrometer

\_\_\_\_\_\_\_\_Mill file / flat file

\_\_\_\_\_\_\_\_Nail gun

\_\_\_\_\_\_\_\_Nail set

\_\_\_\_\_\_\_\_Needle nosed plier

\_\_\_\_\_\_\_\_Nut driver

\_\_\_\_\_\_\_\_Oil filter wrench

\_\_\_\_\_\_\_\_Open end wrench

\_\_\_\_\_\_\_\_Pex fitting

\_\_\_\_\_\_\_\_Pex pinch clamp ring

\_\_\_\_\_\_\_\_Pex crimp tool

\_\_\_\_\_\_\_\_Phillips screwdriver

\_\_\_\_\_\_\_\_Pin punch

\_\_\_\_\_\_\_\_Pipe cap

\_\_\_\_\_\_\_\_Pipe coupling

\_\_\_\_\_\_\_\_Pipe nipple

\_\_\_\_\_\_\_\_Pipe plug

\_\_\_\_\_\_\_\_Pipe reducer

\_\_\_\_\_\_\_\_Pipe tee

\_\_\_\_\_\_\_\_Pipe union

\_\_\_\_\_\_\_\_Pipe wrench

\_\_\_\_\_\_\_\_Piston ring compressor

\_\_\_\_\_\_\_\_Piston ring expander

\_\_\_\_\_\_\_\_Plumb bob

\_\_\_\_\_\_\_\_Portable circular saw

\_\_\_\_\_\_\_\_Portable electric drill

\_\_\_\_\_\_\_\_Portable grinder

\_\_\_\_\_\_\_\_Portable hammer drill

\_\_\_\_\_\_\_\_Portable impact wrench

\_\_\_\_\_\_\_\_Portable jig saw

\_\_\_\_\_\_\_\_Portable miter saw

\_\_\_\_\_\_\_\_Portable reciprocating saw/ Sawzall

\_\_\_\_\_\_\_\_Portable rotary tool

\_\_\_\_\_\_\_\_Portable router

\_\_\_\_\_\_\_\_Portable sander

\_\_\_\_\_\_\_\_Putty knife

\_\_\_\_\_\_\_\_Pry Bar

\_\_\_\_\_\_\_\_Respirator

\_\_\_\_\_\_\_\_Reversible ratchet

\_\_\_\_\_\_\_\_Roofing nail

\_\_\_\_\_\_\_\_Round file

\_\_\_\_\_\_\_\_Round wire feeler gauge

\_\_\_\_\_\_\_\_Roundhead stove bolt

\_\_\_\_\_\_\_\_Roundhead wood screw

\_\_\_\_\_\_\_\_Rubber mallet

\_\_\_\_\_\_\_\_Safety glasses

\_\_\_\_\_\_\_\_Safety goggles

\_\_\_\_\_\_\_\_Screw extractor

\_\_\_\_\_\_\_\_Scribe

\_\_\_\_\_\_\_\_Sheet metal screw

\_\_\_\_\_\_\_\_Side cutting pliers

\_\_\_\_\_\_\_\_Single gang box

\_\_\_\_\_\_\_\_Single pole switch

\_\_\_\_\_\_\_\_Slag Hammer

\_\_\_\_\_\_\_\_Sledgehammer

\_\_\_\_\_\_\_\_Sliding T Bevel

\_\_\_\_\_\_\_\_Slip joint pliers

\_\_\_\_\_\_\_\_Snap ring pliers

\_\_\_\_\_\_\_\_Soldering gun

\_\_\_\_\_\_\_\_Solderless wire nut

\_\_\_\_\_\_\_\_Spark plug gauge

\_\_\_\_\_\_\_\_Spark plug socket

\_\_\_\_\_\_\_\_Spark tester

\_\_\_\_\_\_\_\_Speed bore bit

\_\_\_\_\_\_\_\_Speed handle

\_\_\_\_\_\_\_\_Speed square

\_\_\_\_\_\_\_\_Socket

\_\_\_\_\_\_\_\_Socket extension

\_\_\_\_\_\_\_\_Straight shank drill bit

\_\_\_\_\_\_\_\_Tape measure

\_\_\_\_\_\_\_\_Telescoping gauge

\_\_\_\_\_\_\_\_Thickness gauge

\_\_\_\_\_\_\_\_Three way switch

\_\_\_\_\_\_\_\_Tip cleaners

\_\_\_\_\_\_\_\_Tire chuck

\_\_\_\_\_\_\_\_Tire gauge

\_\_\_\_\_\_\_\_Toggle bolt

\_\_\_\_\_\_\_\_Torch lighter

\_\_\_\_\_\_\_\_Torch Tip Cleaner

\_\_\_\_\_\_\_\_Torque wrench

\_\_\_\_\_\_\_\_Torx screwdriver

\_\_\_\_\_\_\_\_Triangular file

\_\_\_\_\_\_\_\_Try square

\_\_\_\_\_\_\_\_Tube cutter  
\_\_\_\_\_\_\_\_Valve lapping tool

\_\_\_\_\_\_\_\_Valve spring compressor

\_\_\_\_\_\_\_\_Vise grip pliers

\_\_\_\_\_\_\_\_Vise grip welding clamp

\_\_\_\_\_\_\_\_Welding goggles

\_\_\_\_\_\_\_\_Welding gloves

\_\_\_\_\_\_\_\_Welding helmet

\_\_\_\_\_\_\_\_Welding pliers

\_\_\_\_\_\_\_\_Welding torch

\_\_\_\_\_\_\_\_Wire brush

\_\_\_\_\_\_\_\_Wire strippers

\_\_\_\_\_\_\_Wood chisel

\_\_\_\_\_\_\_\_Wood mallet

\_\_\_\_\_\_\_\_Wrecking bar

\_\_\_\_\_\_\_Any Item not on List