

# Tool ID

**Purpose:** To develop the student's ability to correctly identify the names and uses of a variety of tools commonly used in the agricultural industry.

**Team Score Format:** A team shall be comprised of 4 members. The top 3 team members scores will count toward the final team score.

## Eligibility:

1. This Career Development Event is open to students who are active FFA members and who are freshman or sophomores enrolled in their first Agricultural Education course in high school.
2. A team shall consist of three or four members.
3. Top 5 teams from each region will be eligible to enter the state competition.

## Procedures:

1. The contest coordinator shall be responsible for setting up the course, selecting judges, and developing materials according to the below criteria.

### I. Identification

- a. Forty tools/materials will be selected from the attached official list.
- b. Contestants will indicate the tool using the provided scantron and tool code list.
- c. No tool/material will be used more than once in the identification portion of the contest
- d. Each contestant will remain at each tool/material for no more than one minute and then progress to the next tool
- e. No contestant will be permitted to go to a tool/material for a second time.
- f. Two points will be awarded for each tool/material correctly identified.
- g. Teachers shall not grade their own team's papers.
- h. Contestants are not allowed to touch the presented tools. Touching or moving tools may result in disqualification.

### II. Knowledge Test

- a. A matching test designed to test the knowledge of the contestants regarding the proper use of 20 randomly selected tools/materials will be developed by the contest coordinator selecting 20 tools and 25 uses from the official list
- b. Contestants will use the provided scantron to complete this portion of the event.
- c. Each contestant will be given 40 minutes to complete the test.
- d. One point will be awarded for each correct response.
- e. Teachers shall not grade their own team's papers.

**Tiebreaker:**

In the event a tie score exists between teams that will be advancing or receiving recognition, apply the following until the tie is broken:

- a. The fourth score (“the drop person”) will be added to the teams that are tied.
- b. All contestants will be asked to complete a written tiebreaker activity to break team and individual. Tie breaker activity may relate to: proper tool use, tool selection for an appropriate scenario, tool identification and knowledge, etc.
- c. The tie breaker may also be used to break a tie for any placing 1<sup>st</sup>-5<sup>th</sup> that will effect who will advance from a particular region
- d. Only 5 teams may advance from any one region

**Official Tools and Materials Identification List**

**Revised 2017**

**Instructions:** Tools/Materials will be numbered 1-40. The contestant is to bubble in the number next to the correct tool on the scantron

**SCORE \_\_\_\_\_ (No. correct multiplied by 2)**

Contestant Number \_\_\_\_\_ Contestant Name \_\_\_\_\_

**List of Tools**

- |                                      |                                 |
|--------------------------------------|---------------------------------|
| _____ 100- 45° pipe elbow            | _____ 146-Duplex receptacle     |
| _____ 101- 90° pipe elbow            | _____ 147-Dust mask             |
| _____ 102- 90° street elbow          | _____ 148-Ear tagger            |
| _____ 103- Adjustable wrench         | _____ 149-Electrical multimeter |
| _____ 104- Allen wrench              | _____ 150-Emery dresser         |
| _____ 105- Aviation snips            | _____ 151-End cutting nippers   |
| _____ 106- Ball pein hammer          | _____ 152-Expansion shield      |
| _____ 107- Bar clamp                 | _____ 153-Extension             |
| _____ 108- Bent nose pliers          | _____ 154-Eye bolt              |
| _____ 109- Bolt cutters              | _____ 155-Fence pliers          |
| _____ 110-Bolt die                   | _____ 156-Fence staple          |
| _____ 111-Bolt die stock             | _____ 157-File card             |
| _____ 112-Bolt tap                   | _____ 158-Finishing nail        |
| _____ 113-Box end wrench             | _____ 159-Flaring tool          |
| _____ 114-Brick jointer              | _____ 160-Flathead stove bolt   |
| _____ 115-Brick trowel               | _____ 161-Flathead wood screw   |
| _____ 116-Bulb planter               | _____ 162-Framing square        |
| _____ 117-Bush axe                   | _____ 163-Fuse puller           |
| _____ 118-Butt hinge                 | _____ 164-Gate valve            |
| _____ 119-C clamp                    | _____ 165-Glass cutter          |
| _____ 120-Carriage bolt              | _____ 166-Grafting tool         |
| _____ 121-Castrator                  | _____ 167-Grease gun            |
| _____ 122-Center punch               | _____ 168-Groove joint pliers   |
| _____ 123-Chain saw file             | _____ 169-Hacksaw               |
| _____ 124-Chalk line reel            | _____ 170-Half hatchet          |
| _____ 125-Chipping hammer            | _____ 171-Half round file       |
| _____ 126-Circuit breaker            | _____ 172-Hammer drill          |
| _____ 127-Circular carbide saw blade | _____ 173-Hand screw clamp      |
| _____ 128-Cold chisel                | _____ 174-Hedge shears          |
| _____ 129-Combination oil stone      | _____ 175-Hinge handle          |
| _____ 130-Combination square         | _____ 176-Hose bib              |
| _____ 131-Combination wrench         | _____ 177-Impulse sprinkler     |
| _____ 132-Common nail                | _____ 178-Increment borer       |
| _____ 133-Compass                    | _____ 179-Junction box          |
| _____ 134-Compass saw                | _____ 180-Lag screw             |
| _____ 135-Concrete finishing trowel  | _____ 181-Level                 |
| _____ 136-Concrete float             | _____ 182-Line level            |
| _____ 137-Coping saw                 | _____ 183-Long nose pliers      |
| _____ 138-Cordless drill             | _____ 184-Lopping shears        |
| _____ 139-Countersink                | _____ 185-Machine bolt          |
| _____ 140-Cutting torch              | _____ 186-Machinist's vise      |
| _____ 141-Deep socket                | _____ 187-Mason hammer          |
| _____ 142-Dehorner                   | _____ 188-Mason level           |
| _____ 143-Diagonal cutting pliers    | _____ 189-Masonry bit           |
| _____ 144-Drift punch                | _____ 190-Masonry nail          |
| _____ 145-Drill press vise           | _____ 191-Mill file             |

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192-Miter box	247-Speed handle
193-Nail hammer	248-Straight shank drill bit
194-Nail set	249-Strap hinge
195-Nailing gun	250-Switch box
196-Nut driver	251-T-hinge
197-Obstruction wrench	252-Tap wrench
198-Open end wrench	253-Tape rule
199-Phillips screwdriver	254-Thickness gauge
200-Pin punch	255-Timing light
201-Pipe bushing	256-Tip cleaners
202-Pipe cap	257-Tire chuck
203-Pipe coupling	258-Tire gauge
204-Pipe nipple	259-Toggle bolt
205-Pipe plug	260-Toggle switch
206-Pipe reducer	261-Toggle switch plate
207-Pipe stop & waste	262-Torch lighter
208-Pipe tee	263-Torque wrench
209-Pipe union	264-Torx screwdriver
210-Pipe wrench	265-Tree diameter tape
211-Piston ring compressor	266-Triangular file
212-Planting bar	267-Try square
213-Plumb bob	268-Tube cutter
214-Portable circular saw	269-Universal joint
215-Portable electric drill	270-Universal socket
216-Portable jig saw	271-Valve spring compressor
217-Portable electric sander	272-Vise grip pliers
218-Pruning saw	273-Vise grip welding clamp
219-Pruning shears	274-Water breaker
220-Putty knife	275-Welding gloves
221-PVC cutter	276-Welding goggles
222-Regular socket	277-Welding helmet
223-Reversible ratchet	278-Welding torch
224-Roofing nail	279-Wheel puller
225-Round file	280-Wire scratch brush
226-Roundhead stove bolt	281-Wire strippers
227-Roundhead wood screw	282-Wood chisel
228-Router	283-Wood mallet
229-Rubber mallet	284-Wood rasp
230-Safety glasses	285-Wrecking bar
231-Safety goggles	
232-Screw extractor	
234-Sheet metal screw	
235-Side cutting pliers	
236-Sledge hammer	
237-Slip joint pliers	
238-Slotted screwdriver	
239-Solderless wire nut	
240-Soil auger	
241-Soil thermometer	
242-Soil tube	
243-Soldering gun	
244-Spark plug gauge	
245-Spark plug socket	
246-Speed bore bit	