


2017 Career Development Event Rules and Regulations

Agricultural Technology and Mechanical Systems

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|--|---|---|
| | |  |
| Maximum Number of Team Members | 4 | |
| Number of Team Members Scored | 4 | |
| Scantron | Multi Purpose A – Form Number - 228574 | |
| Committee: William Chaney Tim Cunnien Brent Ebert Jeremy Greene Jeff Lee | | |

2017 West Virginia Agriculture Mechanics CDE

Rules for the 2017 agricultural mechanics contest at the State Agriculture Career Development Events will be posted at a later date.

SAFETY GLASSES ARE REQUIRED

All team members must wear safety glasses during the team and skill events. To enter the CDE area, students must wear safety glasses.

USE OF HAND CALCULATORS

Each team member will need a calculator to complete the multiple-choice examination on Tuesday. Students will **not** be allowed to share a calculator during the examination.

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Ag Mechanics CDE - Tool Identification Code Sheet

| | | | | | |
|------|---|------|--|------|--------------------------|
| 001. | Adj. combination square | 049. | High speed indicator | 099. | Try square |
| 002. | Adj. round split die | 050. | Jack plane | 100. | Twelve pt. box wrench |
| 003. | Adjustable hack saw | 051. | Linemen's side cutting pliers | 101. | Vee block & clamp |
| 004. | Adjustable wrench (crescent) | 052. | Locking pliers | 102. | Welder's chipping hammer |
| 005. | Allen wrench | 053. | Mallet (raw-hide facing) | 103. | Wheel dresser |
| 006. | Awl (scratch) | 054. | Metal vise | 104. | Wood chisel |
| 007. | Ball pein hammer | 055. | Micrometer calipers | 105. | Wrecking bar |
| 008. | Bit brace | 056. | Monkey wrench | | |
| 009. | Blacksmith's hammer | 057. | Mortise gauge | | |
| 010. | Blacksmith's tongs | 058. | Nail puller | | |
| 011. | Bolt cutter | 059. | Nippers, adj. jaw | | |
| 012. | Bottoming Tap | 060. | Offset screwdriver | | |
| 013. | Box or rack for twist drills | 061. | Open end box wrench | | |
| 014. | Breast drill | 062. | Open end wrench (set) | | |
| 015. | C clamp | 063. | Oxy-acet. blow pipe | | |
| 016. | Calipers, inside | 064. | Oxy-acet. cutting torch | | |
| 017. | Calipers, outside | 065. | Phillips screwdriver | | |
| 018. | Cape chisel | 066. | Pickup tool | | |
| 019. | Carpenter level | 067. | Pipe cutter | | |
| 020. | Center punch | 068. | Pipe wrench | | |
| 021. | Chain wrench | 069. | Pocket slide calipers | | |
| 022. | Claw hammer, curved | 070. | Pointed cement trowel | | |
| 023. | Claw hammer, ripping | 071. | Putty knife | | |
| 024. | Cold chisel | 072. | Ratchet box wrench | | |
| 025. | Combination slip-joint, side cutting pliers | 073. | Rip saw | | |
| 026. | Compass saw | 074. | Rivet cutter | | |
| 027. | Counter sink | 075. | Rivet hammer | | |
| 028. | Crosscut saw | 076. | Round file | | |
| 029. | Diagonal cutting pliers | 077. | Saw set | | |
| 030. | Die stock | 078. | Screwdriver | | |
| 031. | Dividers | 079. | Shingle hatchet | | |
| 032. | Draw knife | 080. | Sliding tee bevel square | | |
| 033. | Drift punch | 081. | Smoothing plane | | |
| 034. | Electric drill | 082. | Socket extension | | |
| 035. | Expansion bit | 083. | Socket ratchet | | |
| 036. | Extra Slim taper file | 084. | Sockets (12 point) | | |
| 037. | Feeler gauge | 085. | Soldering copper | | |
| 038. | File card | 086. | Solid square bolt die | | |
| 039. | Flaring tool, copper tubing | 087. | Spring joint rule | | |
| 040. | Flat file | 088. | Standard half hatchet | | |
| 041. | Flex handle or pressure wrench | 089. | Star drill | | |
| 042. | Flexible speed handle | 090. | Steel tape | | |
| 043. | Flexible steel rule | 091. | Straight shank twist drill | | |
| 044. | Framing square (carpenter's steel) | 092. | Straight shank twist drill (constant diameter) | | |
| 045. | Gear (wheel) puller | 093. | Tap & drill gauge | | |
| 046. | Glass cutter | 094. | Tap & reamer wrench | | |
| 047. | Hand drill | 095. | Taper shank twist drill | | |
| 048. | Hand reamer | 096. | Taper tap | | |
| | | 097. | Tinner's snips | | |
| | | 098. | Torque wrench | | |

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Ag Mechanics CDE – Small Engines

SMALL ENGINE PARTS

- 001. Air Cleaner Assembly
- 002. Band Brake Assembly
- 003. Blade Governor
- 004. Blower Housing
- 005. Breaker Points
- 006. Breather Assembly
- 007. Camshaft
- 008. Carburetor
- 009. Compression Rings
- 010. Condenser
- 011. Condenser Spring
- 012. Connecting Rod
- 013. Coverage Linkage
- 014. Crank Case Breather
- 015. Crank Shaft
- 016. Cylinder Head
- 017. Dipstick
- 018. Engine Block
- 019. Exhaust Valve
- 020. Flywheel
- 021. Flywheel Guard
- 022. Flywheel Key
- 023. Flywheel screen
- 024. Gas Tank
- 025. Head Bolt
- 026. Head Gasket
- 027. Heat Shield
- 028. Intake Tube
- 029. Intake Valve
- 030. Magneto/coil
- 031. Mechanical Governors
- 032. Model Number
- 033. Muffler
- 034. Oil Ring
- 035. Oil Slinger
- 036. Oil Sump
- 037. Piston
- 038. Piston & connecting rod
- 039. Plate Control
- 040. Push Rods
- 041. Recoil
- 042. Rocker Arms
- 043. Rod Cap
- 044. Rotary Screen
- 045. Shield Cylinder

- 046. Shroud
- 047. Spacer
- 048. Spark Plug
- 049. Starter Assembly
- 050. Starter Clutch
- 051. Sump Gasket
- 052. Tappet Valve
- 053. Terminal Cable
- 054. Throttle
- 055. Timing Gear
- 056. Timing Indicators
- 057. Value Covers
- 058. Valve Breather
- 059. Valve Spring Retainers
- 060. Valve Springs
- 061. Wrist Pin
- 062. Wrist Pin Clip

SMALL ENGINE REPAIR TOOLS

- 063. Adjustable Wrench (Crescent)
- 064. Ball Peen Hammer
- 065. Blade Balancer
- 066. Caliper
- 067. Easy Out
- 068. Feeler Gage
- 069. File
- 070. Fly Wheel Holder
- 071. Fly Wheel Puller
- 072. Gear Puller
- 073. Locking Pliers
- 074. Micrometer
- 075. Piston Ring Compactor
- 076. Piston Ring Groove Cleaner
- 077. Piston Ring Pliers
- 078. Ring Puller
- 079. Rubber Mallet
- 080. Screw Driver
- 081. Socket Set
- 082. Spark Plug Gap Gage
- 083. Spark Tester
- 084. Telescoping Gage
- 085. Torque Wrench
- 086. Valve Grinder
- 087. Valve Lapping Tool