4. SMALL GAS ENGINE TROUBLESHOOTING

Contest Coordinator: Nick Testa
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A. PURPOSE – Members diagnose the problems in a small gas engine that prevents starting, smooth operation, and maximum power output, then make proper adjustments for its operation.

B. OBJECTIVES
   1) Starting the engine and adjusting it for maximum power in a minimum of time using approved skills and orderly procedure.
   2) The observance of safety practices throughout the contest.
   3) The completion of a quiz on gas engine principles and troubleshooting procedures.
   4) The completion of a parts and tool identification exercise.
   5) Each contestant will take a timed, hands-on test consisting of such topics/tasks as ignition system timing, valve tappet clearance adjustment, 2 or 4-stroke carburetor adjustment. Various manufactures of small engines will be utilized. Technical information will be provided and looking up procedures and specifications will be part of the contest.

C. ELIGIBILITY
   1) Career Development Event will consist of one level of competition
      • Senior Level, grades 9-12

D. EVENT RULES
   1) Open to one team chosen from schools of a sub-district as recognized by FFA. A team shall consist of two FFA members from the same program.
   2) Teams must furnish safety glasses and tools.

E. ATTIRE – Clean coveralls, shop coats, FFA jackets, or FFA t-shirts

F. LOCATION – FFA building, Saturday, August 25, 9:00 a.m.

G. AWARDS – 1:00 p.m.