

## 4. SMALL GAS ENGINE TROUBLESHOOTING

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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
    - Junior Level, grades 6-8
    - Senior Level, grades 7-12
- 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 26, 9:00 a.m.
- G. AWARDS – 1:00 p.m.