

## **Cardinal Flight Operations Clinic Contents:**

This clinic is a 1-Day ground school dedicated to the pilot operational aspects of the Cardinal. It's important to note that this program emphasizes *pilot operations* rather than systems maintenance. *You'll be treated as a pilot*, not a mechanic. Systems will certainly be discussed, but within the parameters of flight operations.

The program includes hundreds of specialized charts, drawings and photos, including a large number of historically interesting shots from Guy's years with Cessna.

A course notebook will be provided, as well as a completion certificate suitable for framing and/or providing to your aircraft insurance carrier.

Additionally, the clinic has been approved by the FAA for both basic and advanced seminar credits [a total of 2.0] in the FAA Wings program.

Following is an outline of the course subject material that is covered:

### **Block 1-Systems and Limitations:**

- (1) Systems review:
  - (a) Electrical
  - (b) Pitot/Static
  - (c) Vacuum
  - (d) Landing Gear
  - (e) Fuel
  - (f) Flight controls
- (2) Operational limitations:
  - (a) Critical airspeeds
  - (b) Weight & Balance
  - (c) Pilot operating handbooks & checklists.

### **Block 2-Pretake-off:**

- (1) Performance planning.
- (2) Preflight inspection.
- (3) Starting and run-up checks.
- (4) Use of checklists.

### **Block 3-Take-off to Cruise:**

- (1) Take-offs:
  - (a) Normal conditions.
  - (b) Hot/high/humid.
  - (c) Short field (with and without obstacles).
  - (d) Soft field.
  - (f) Special '68 & '69 model considerations.
- (2) Climbs:
  - (a) Initial climb out/transition from take-off.
  - (b) Enroute climbs.
  - (c) Maximum performance.
- (3) Cruise:
  - (a) Level-off and trim techniques.
  - (b) Engine Management
  - (c) Fuel management.
  - (d) Use of autopilots.

### **Block 4-Descents and Landings:**

- (1) Descending:
  - (a) Overall Planning and Descent options.
  - (b) High-speed/long-distance cruise descent profiles.
  - (c) Engine management.
- (2) Approach & landing:
  - (a) Pattern planning.
  - (b) Normal landings.
  - (c) Short field.
  - (d) Soft field.
  - (e) Crosswind.
  - (f) Slips & flaps.
  - (g) High-density airports.
  - (h) Go-arounds.
  - (i) Stalls and spins.
- (3) Post-landing & shutdown:
  - (a) After landing
  - (b) Taxiing to the ramp
  - (c) Shutdown
  - (d) Securing

## **Block 5-Emergencies:**

- (1) Emergency procedures:
  - a. Primary systems failures.
  - b. Fire and smoke.
  - c. Landing gear.
  - d. Engine failures.
  - e. Rapid emergency descents.

## **Block 6-Open forum:**

- (1) Open forum-questions and answers.
- (2) Current safety of flight issues.
- (3) Review of 177 series accidents.
- (4) Operational considerations for various modifications available.
- (5) Presentation of Completion Certificates.

The Cardinal Flight Operations Clinics are conducted regionally by Guy Maher, with currently scheduled clinics posted on the left of this screen. A course notebook will be provided, as well as a completion certificate suitable for framing and/or providing to your aircraft insurance carrier.

The Cardinal Flight Operations Clinic is intended to bring to the CFO membership the most comprehensive collection and presentation of useful flight operational and safety information available for pilots of the Cessna Cardinal series airplanes. If you have any specific questions regarding the clinics, or specially scheduled individual Cardinal flight and ground instruction, feel free to contact Guy Maher by email at [guymaher@yahoo.com](mailto:guymaher@yahoo.com) or at [guy@cardinalflyers.com](mailto:guy@cardinalflyers.com).