



Global Avionics Training Specialists, LLC

CESSNA CITATION

SPZ-650/CITATION III & VI

LINE MAINTENANCE FAMILIARIZATION COURSE

COURSE OVERVIEW

I. INTRODUCTION

A. SYSTEM DESCRIPTION

The SPZ-650 Integrated Flight Control System provides three-axis autopilot stabilization, flight director guidance and trim functions. The FZ-500 Flight Director Computer integrates the attitude and heading reference, air data, and EFIS into a complete aircraft control system that provides computed steering commands to the autopilot and to the pilot. The SP-650 Autopilot Computer provides the stabilization and control needed to ensure optimum performance throughout the aircraft flight regime.

The System displays heading, course, radio bearing, pitch and roll attitude, barometric altitude, radio altitude, course deviation, glideslope deviation, TO-FROM and DME indications. Lighted annunciators denote selected flight mode and altitude alert. Pitch and roll steering commands developed by the Flight Director Computer in conjunction with the Mode Selector are displayed by steering pointers on the EADI to enable the pilot to reach and/or maintain the desired flight path or attitude.

An Avionics Standard Communications Bus (ASCB) is used to interface between the SG-605 Symbol Generators and the optional MG-605 MFD Symbol Generator or the optional NZ-610 Navigation Computer. Other EFIS data is transmitted on private line buses.

Global Avionics Training Specialists LLC.

The system displays heading, course, radio bearing, pitch and roll attitude, barometric altitude, alert altitude, radio altitude, rate of turn, course deviation, glideslope deviation, TO/FROM and DME indications. Lighted annunciators denote selected flight modes. Pitch and roll computed steering commands developed by the flight guidance computer are displayed on the EADI to allow the pilot to reach and/or maintain the desired flight path or attitude reference.

B. COURSE OBJECTIVES

This course of instruction is designed to familiarize and prepare line maintenance avionics specialists to operate, maintain, troubleshoot and test the SPZ-650 IFCS to the LRU level.

Equipment interface, theory of operation and flight mode operations are thoroughly discussed. Mode logic, interlocks, and ground maintenance testing procedures are covered in detail.

C. ARRANGEMENT

Based upon past experience, Global Avionics Training Specialists, LLC has arranged the course material in an order of presentation best suited to continuity and ease of comprehension.

D. DURATION

The course is 4.5 days in length, 8 hours a day, for a total of 36 class hours.

E. STUDENT PREREQUISITES

Students attending this course should be avionics specialists with a working knowledge of:

- Digital logic
- Digital bus structures
- Basic flight deck displays
- Radio communications and navigation
- Air pressure relationships
- Servo loop theory

SPZ-650/CITATION III & VI LINE MAINTENANCE COURSE OVERVIEW