



Global Avionics Training Specialists, LLC

CESSNA CITATION V

SPZ-500C/CITATION V

INTEGRATED FLIGHT CONTROL SYSTEM

LINE MAINTENANCE FAMILIARIZATION COURSE

COURSE OVERVIEW

I. INTRODUCTION

A. SYSTEM DESCRIPTION

The System provides three-axis aircraft attitude stabilization and path control. The automatic path mode commands are generated by the FZ-500 Flight Director Computer which integrates the attitude and heading reference, air data, and EFIS into a complete aircraft control system that 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 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 Generator and the optional MG-605 MFD Symbol Generator or the optional NZ-610 Navigation Computer. Other EFIS data is transmitted on private line buses.

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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-500C Integrated Flight Control System (IFCS) to the LRU level.

Equipment interface, theory of operation and flight operations are thoroughly discussed. Mode logic, interlocks, power distribution 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 5 days in length, 8 hours a day, for a total of 40 class hours.

E. STUDENT PREREQUISITES

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

- Basic flight deck displays
- Radio communications and navigation
- Air pressure relationships
- Servo loop theory