

**Course Description – 5 Day Course**

The Principles of Troubleshooting course is designed to teach today's aircraft maintenance technician a logical approach to solving aircraft problems. The course consists of both lecture and hands-on practice provided FlightSafety's "troubleshooter" – computer simulations of aircraft systems and related test equipment. Using the "troubleshooter," the technician analyzes the fault and chooses maintenance actions such as continuity tests, bench checking, and component swapping that might be applied to correct the problem. The "troubleshooter" evaluates the logic used and also keeps track of the time and expenses incurred by the technician while solving problems.

The Avionics portion of the class is designed to give the maintenance technician the information needed to troubleshoot, maintain, and repair typical avionics systems installed in any aircraft. It begins with a brief review of basic electricity/electronics and advances to the more sophisticated digital systems. Block diagrams and schematic symbols are presented. Equipment self-tests are discussed leading to a better understanding of the aircraft and the way avionics equipment is utilized in flight.

FlightSafety Material Number .....303587

**Ground School Course Modules Hours**

ATA 22 Auto Flight .....	4.00
ATA 23 Communications.....	4.00
ATA 34 Navigation .....	5.00
ATA 45 On-board Diagnostic System.....	3.00
A Logical Approach .....	2.00
Includes: Logical Thought and Communication, Recognizing Logical Relationships, Logic Symbols, and Logical Systems	
Paths of Influence.....	2.00
Includes: The Four Steps, Following the Critical Path, and Troubleshooting Levels	
The Four-Step Process .....	1.00
Includes: The Four Steps, Following the Critical Path, and Troubleshooting Levels	
Practical Application .....	11.00
Includes: Indications vs. Malfunctions, Concepts and Procedures on Generic systems, Reading Electrical Schematics and Diagrams, and Troubleshooting Aircraft Systems	
<b>Ground School Training Hours .....</b>	<b>32.00</b>

**Academic Course Modules**

Welcome/Introduction.....	0.50
Review/Exam .....	1.50
<b>Total Hours.....</b>	<b>34.00</b>

**Approvals and Limitations**

**FAA IA renewal Accepted**  
Accredited for IA refresher training under Title 14 CFR part 65, § 65.93(a)(4)

**Training Locations & Contact Information**

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