

# Principles of Troubleshooting

In-Center or Online Instructor-led LiveLearning®

## Course Information

### Course Description – 2.5 Days

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 by 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 he or she might apply to correct the problem. The "troubleshooter" not only evaluates the logic used but also keeps track of the time and expenses incurred by the technician while solving problems. Using the methods taught in this course will result in shortened troubleshooting times. Actual hours in each subject may vary depending on experience of class participants and topics discussed.

The course objectives are aligned with ATA 104 Level III recommendations.

FlightSafety Material Number ..... 303579  
 LiveLearning Material Number ..... 307667

### Ground School Course Modules Hours

A Logical Approach .....	2.00
Includes: Logical thought and communication, recognizing logical relationships, logic, symbols, and logical systems	
Paths of Influence.....	2.50
Includes: Concept, Recognizing Paths of influence and identifying the critical path	
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	

**Ground School Training Hours..... 16.50**

### Academic Course Modules Hours

Welcome/Introduction.....	0.50
Review/Exam .....	3.00

**Total Training Hours ..... 20.00**

### Approvals and Limitations

<b>FAA IA Renewal Code</b>	<b>C-IND-IM-131026-K-006-050</b>
FAA IA Course Validity:	05/10/2019 05/31/2023

## Training Locations & Contact Information

DFW Airport, Texas • 866-486-8733 • 972-534-3200 • [dfw@flightsafety.com](mailto:dfw@flightsafety.com)  
 Houston, Texas • 800-927-1521 • 713-393-8100 • [houston@flightsafety.com](mailto:houston@flightsafety.com)  
 Savannah, Georgia • 800-625-9369 • 912-644-1000 • [savannah@flightsafety.com](mailto:savannah@flightsafety.com)  
 Toronto, Canada • 877-359-3274 • 416-638-9313 • [toronto@flightsafety.com](mailto:toronto@flightsafety.com)  
 Tucson, Arizona • 800-203-5627 • 520-918-7100 • [tucson@flightsafety.com](mailto:tucson@flightsafety.com)  
 West Palm Beach, Florida • 800-769-6763 • 561-515-2900 • [westpalm@flightsafety.com](mailto:westpalm@flightsafety.com)  
 Wichita, Kansas • 800-491-9796 • 316-361-3900 • [wichitamaintenance@flightsafety.com](mailto:wichitamaintenance@flightsafety.com)