FlightSafety
INTERNATIONAL

Principles of Troubleshooting

2.5 DAY COURSE

In-Center or Online Instructor-led LiveLearning®

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.

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 Hours 20.00

APPROVALS AND LIMITATIONS

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