Flight Test Principles and Practices
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Description
An introduction to and definition of the basic flight test process, application of engineering principles to flight test and description of common flight test practices: a survey of the flight test discipline embellished with a variety of examples from completed flight test programs.

Highlights
- Flight test introduction/overview and brief history
- The atmosphere
- Mass, center of gravity and moment of inertia determination
- Time/space position measurements
- Air data calibration methods
- Instrumentation system principles
- Data recording and processing methods
- Proper use of digital bus data
- In-flight measurement of thrust and power
- Stall tests
- Flight test planning and interaction with program planning
- Preliminary preparation: modeling and simulation preparation, and value of ground testing
- Takeoff and landing and cruise performance
- Climb performance
- Advanced performance methods
- Static stability and control
- Structural flight tests
- Spin testing
- Systems testing and evaluation

Who should attend?
The course is designed for all levels of engineers and managers in industry working on flight test projects, military and civil project engineers, test pilots and flight test engineers, government research laboratory personnel and FAA and other regulatory agency engineers. It is ideally suited for engineers and managers from other disciplines who are moving into the flight test discipline for the first time or who must interact with flight test engineers regularly on a given project.

"The instructors are the perfect combination of flight test engineer and qualified test pilot inherent in experimental flight test. The real-life experience they bring to the course makes the theory come alive."
—Major Nicole Armstrong, Royal Canadian Air Force