Electromagnetic Effects Aircraft Level Testing and FAA Requirements  NEW  (course will debut October 2016)
Instructors: C. Bruce Stephens, Darren L. Stout (This course may be taught by one or both instructors.)

Description
This course will discuss the concepts of aircraft ground and flight testing that may be required to ensure that aircraft level systems are safe for operation when exposed to the effects of Electromagnetic Effects (EME), High Intensity Radiated Fields (HIRF), Lightning, Precipitation Static (P-Static), and Transmitting Personal Electronic Devices (TPEDs). This course will discuss the fundamentals of coordinating and performing aircraft testing from a very practical, step-by-step perspective, and examine the process used by aircraft OEMs to show compliance to regulations relating to EME, HIRF, lightning, p-static, and TPEDs. The course will also include a high-level overview for electromagnetic effects areas. Topics discussed include Electromagnetic Compatibility (EMC), High Intensity Radiated Fields (HIRF), Lightning Transit Analysis, Precipitation Static (P-Static) and Transmitting Personal Electronic Devices (TPEDs) requirements.

Highlights
- Aircraft testing fundamentals
- Coordination of aircraft testing activities
- Documentation of test procedures and results
- FAA aircraft-level certification requirements
- Problem and solution discussions
- EME testing team workshops

Who should attend?
The course targets individuals in all aircraft design and testing areas including electrical, avionics, communications, engineers and technicians. Aircraft managers and project engineers who coordinate airplane testing and/or certification related areas are also recommended to attend.