FLIGHT SAFETY SYSTEMS

Course: SMA-AS-WBT-335

Duration: 16 hours

The Flight Safety Systems (FSS) course describes required range flight safety policies and requirements, roles and responsibilities, and plans and procedures for both Flight Termination Systems (FTS) and Contingency Management Systems (CMS). This includes FTS design criteria and processes, component descriptions, performance requirements, and subsystem prelaunch testing requirements. The course also discusses FTS analysis which includes reliability and single point of failure requirements and provides an overview of component acceptance and qualification testing requirements. The course expands to a review of sounding rocket, Unmanned Aircraft System (UAS), and balloon FSS including universal termination packages. The FSS class concludes with a description of emerging technologies, specifically Enhanced Flight Termination Systems (EFTS) and Autonomous Flight Safety Systems (AFSS).

This course can also be presented live by an instructor (SMA-SAFE-NSTC-0096), if requested.

Prerequisite:

1. Completion of SMA-AS-WBT-410, Range Flight Safety Orientation, or equivalent level of experience or training, is required
2. Completion of SMA-SS-WBT-0002, System Safety Fundamentals, is recommended.

Target Audience:

- Program, project, and Center personnel with an interest in Flight Safety Systems