

## RANGE FLIGHT SAFETY ANALYSIS COURSE

**Course:** SMA-AS-WBT-435

**Duration:** 30 hours

This course gives a detailed overview of range flight safety analysis from a NASA-centric perspective. It includes the NASA, Federal Aviation Administration and Department of Defense requirements for flight safety analysis; a discussion of range operations hazards, risk criteria and risk management processes; and in-depth coverage of vehicle containment and risk analysis methods. Vehicles covered are unguided vehicles, Unmanned Aircraft Systems (UAS), Expendable Launch Vehicles (ELVs), Reusable Launch Vehicles (RLVs) and other NASA-unique flight vehicles. The course focuses on debris hazards but includes an overview of toxic, blast, laser and radiation hazards. Throughout the course, class exercises demonstrate key aspects of flight safety analysis.

### Prerequisite:

1. Completion of SMA-AS-WBT-410, Range Flight Safety Orientation, or equivalent level of experience or training, is required

### Target Audience:

- This course is intended for program, project and center personnel who conduct hazardous operations or design potentially hazardous systems to operate on a range.

