

# NASA Lyndon B. Johnson Space Center Announcement NNJ13ZBH018L

## NASA Safety Training Center

open for interagency reimbursable work only

### NASA Safety Training Center

NASA Safety Training promotes proactive safety techniques in use today. Our safety courses are proven, having been delivered many times to NASA, FAA, USAF, and other government and commercial audience over the last 20 years.

Our safety courses are for those involved as test operations team members or engineers who design, plan, and execute hazardous operations, as well as for safety, quality, reliability, and maintenance professionals who may manage, review, design, or oversee such activities.

Available Course Offerings Include:

- **Control Team/Crew Resource Management-** (2-1/2 Days; CEUs:1.5)

This training directly addresses the human factors issues that most often cause problems in team and crew interaction. No one who works in a team or on a crew, especially in high stress activities, is immune to these effects. The Control Team/Crew Resource Management course deals with interpersonal relations; but does not advocate democratic rule or hugging your fellow team members to improve personal relations. Rather, this course provides awareness of the human factors problems that too often result in mishaps and offers recommendations and procedures for eliminating these problems; with an emphasis on safety risk assessment, crew/team coordination, and decision-making in crisis situations. The two versions of this course are applicable both to those in aircrew-type operations and also to personnel operating consoles for hazardous testing or on-orbit mission operations. It is preferable that a “team” experiences the course as a group if possible. One and two-day versions of this course are also available - check with the NSTC to determine which version of the course is most applicable to your operations.

*Target Audience:*

- Safety Reliability, Quality, and maintainability Professionals.
  - Managers, Engineers, and Technicians who work in a team environment and who must coordinate with, and depend on, others to accomplish work objectives and goals.
  - All who desire to work more efficiently, effectively, and understand the dynamics of working with others
- **System Safety Workshop-**(3 Days; CEUs:1.8)  
This course teaches the fundamentals of hazard recognition and analysis for hardware and operations. Basic hazard concepts and the basics of the analytical process are stressed. The student is introduced to NASA publications that require and guide safety analysis, and to general reference texts on subject areas covered. Types and techniques of hazard

analysis are addressed in enough detail to give the student a working knowledge and provide a basis for continued refinement of analytical skills. Extensive use of in-class workshops and group exercises allow hands-on practice in techniques discussed.

*Target Audience:*

- Technical Interns.
- Supervisors.
- Any Technical or Non-Technical personnel who perform safety analysis or who are interested in making their hardware safe.

- **Payload Safety Process and Requirements-** (8 Hours; CEUs: 0.6)

This course is intended as an overview of the requirements and will merely introduce the payload safety and hazard analysis process. It is intended for those who may be monitoring, supervising, or assisting those who have the responsibility of identifying, controlling, and documenting payload hazards. It will provide an understanding of the relationship between safety and the payload integration process with an orientation to the payload safety review process. It will also describe payload safety requirements (both technical and procedural) and discuss their application throughout the payload safety process - analysis, review, certification, and follow-up to assure implementation. System safety concepts and hazard recognition will be briefly discussed and documentation requirements explained in general terms.

*Target Audience:* Program Managers and supervisory personnel, engineering and safety staff, and others who need a general understanding of the payload safety review process and primary technical requirements.

- **Mishap Investigation and Root Cause Analysis**

This course provides instruction in aviation and flight systems mishap investigation basics and policy. Topics discussed include: NASA NPR 8621.1, “NASA Procedural Requirements for Mishap and Close Call Reporting, Investigating, and Recordkeeping,” mishap investigation requirements and terminology, investigator qualifications, board composition and field techniques. Evidence identification, recovery and protection, witness interviewing and site mapping along with individual component systems and material failures are key areas discussed during sessions on field investigation. The course contains extensive accident investigation information generally applicable to aviation accidents which can be applied to other areas of flight systems mishaps, such as unmanned aerial vehicles, rockets, balloons, and other space flight systems mishaps such as Genesis.

## **Points of Contact**

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