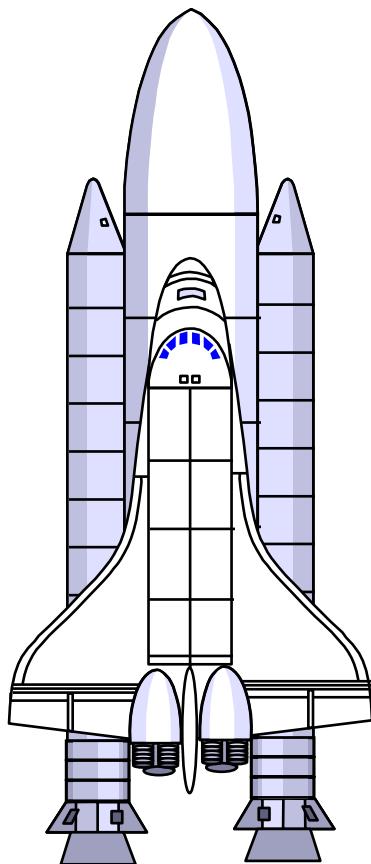


BASIC SYSTEM SAFETY PRACTICE #020

System Safety - The complement of reliability engineering - is a doctrine of management practice supported by analytical engineering techniques and aimed at ensuring that hazards will be identified and that their operating risks will be recognized and controlled within acceptable limits.

This basic course provides an introductory understanding of the management doctrine. Methods for finding hazards and for assessing their risks along with means for establishing limits of risk tolerance are shown. Also included are methods for dealing with excessive risks. The course then presents a family of both inductive and deductive analytical engineering techniques, e.g., Preliminary Hazard Analysis. The specific advantage of each technique for application to practical system safety analysis problems are demonstrated. Shortcomings and common abuses in the use of each technique are also identified. Through classroom examples and workshop problems, the participant will develop practical working skills (or extend existing skills) at performing basic system safety analyses and at reviewing and critiquing analyses performed by others.

Instructor: Pat L. Clemens has over 30 years of experience in system engineering design and safety analysis. He has national board certification by examination in four areas of safety discipline, and he has experience in developing, applying, and directing use of system safety analytical techniques and program management. He is certified by the Department of Energy as an accident/incident investigator and has participated in and led many investigations, including complex cases of sabotage and of multiple fatalities. He has conducted many system safety short courses for NASA, the Air Force, the American Society of Safety Engineers, the System Safety society, private industry and universities. He has served as a consultant for the NATO/Advisory Group on Aeronautical Research and Development, has served for two academic years as Resident Visiting Professor at the von Karman Institute for Fluid Dynamics (Belgium), and has been a lecturer at various national and international conferences and universities. He has authored more than 40 published technical papers in his field.



Dates:

September 19 – 23, 2005
8:00 a.m. - 12:00 p.m.

Location:

Marshall Space Flight Center

**This course provides 2.0
Continuing Education Units**

Target Audience:

Recommended for Managers and Engineers whose work involves recognizing & managing system risks.

To register, please contact:
Georgann Crump, Mailstop: CO20
Telephone: 256.544.6525, Fax: 256.544.4809

