

Applications of System Safety Engineering in Improving Safety & Health

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System Safety is....

- The application of engineering and management principles, criteria, and techniques to optimise Safety within the constraints of operational effectiveness, time, and cost throughout all phases of the System life cycle
- Primarily a management tool that applies special technical and managerial skills to the systematic, forward-looking identification and control of hazards throughout the life cycle of a project, program, or activity
- Addressing safety at a system level. (A system is a composite, at any level of complexity, of personnel, procedures, materials, tools, equipment, facilities, and software)

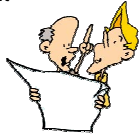
System Safety ≠ Systems Safety

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Objective of System Safety

- To assure that a system does what it is supposed to do and does not do what it is not supposed to do
- To achieve acceptable mishap risk through a systematic approach of hazard analysis, risk assessment, and risk management

MIL-STD-882D, Department of Defense, USA



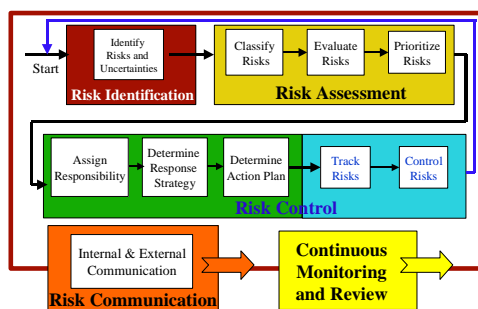
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Three Key Applications of System Safety Engineering in Improving Safety & Health

- Proof of safety
- Hazard identification and evaluation
- Prioritization of risks/resources

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Proof of Safety: Risk Management Programme



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