



# ASQ CRE Prep course

Lesson I. B. 3.

Types of Risk

A photograph of an astronaut in a white spacesuit standing on a metal ladder that extends from a spacecraft. The astronaut is positioned in the upper center of the frame, looking down. The spacecraft's structure, including gold-colored thermal insulation and various equipment, is visible. The background is the dark void of space, with the grey, cratered surface of the Moon visible at the bottom. A small sign with the text 'UNIT STA' is partially visible in the bottom right corner.

Where do the failures come from

# TYPES OF RISK

# Definition of Risk

- **Probability of occurrence**
- **Impact of that occurrence**
- **For reliability – it is risk of failure**



# Sources of Risk

- **Technical**
- **Safety**
- **Scheduling**
- **Financial**
- **Personnel**
- **Market**
- **Credit**
- **Operational**
- **Legal Regulatory**
- **Product development**
- **Supplier**



# Risk Assessment

- **Risk management planning**
- **Risk identification**
- **Qualitative risk analysis**
- **Quantitative risk analysis**
- **Risk response planning**
- **Risk monitoring and control**

# Risk Management Tools

- **Basic Quality Tools**
- **FMEA**
- **FMECA**
- **FTA**
- **HACCP**
- **HAZOP**
- **PRA**
- **Ranking and filtering**





# ASQ CRE Prep course

Lesson I. B. 4.

Product Lifecycle Engineering