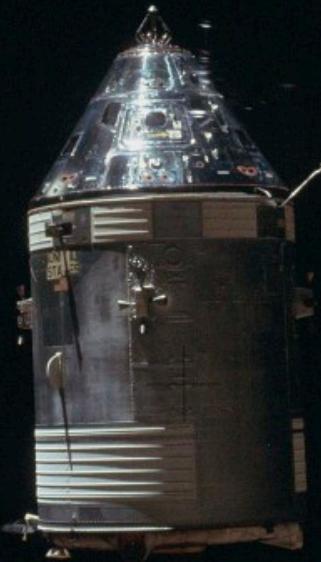




# ASQ CRE Prep course

Lesson III. A. 12.

Reliability Apportionment  
(Allocation) Techniques



The budget

# APPORTIONMENT

# Concept and Use

**Break down the  
reliability objective to  
subsystems and  
components**

**Start the discussion**



# Equal Apportionment Technique

**Given 5 subsystems  
and goal of 95%  
reliable at one year,  
what is goal for each  
subsystem?**



# ARNIC Apportionment Technique

- Assumes constant failure rate
- Estimate failure rate for each subsystem
- Calculate weighting as a proportion of subsystem failure rate to overall
- Then calculate subsystem failure rate requirement

Is this necessary?



# ASQ CRE Prep course

Lesson III. B.

Parts and Systems  
Management