



# ASQ CRE Prep course

Lesson IV. B. 2. a.

Reliability Prediction Methods

Considerations

Polish that crystal ball

# WHEN AND WHY ATTEMPT PREDICTIONS



A faint, historical-style map of the Pacific Ocean and surrounding landmasses, including North America, South America, and Australia. The map is oriented with North at the top and features various geographical labels in a serif font.

# Prediction Benefits

**Guide decisions**

**Identify safety issues**

**Warranty accruals**

**Compare progress toward goals**

**Identify improvement areas**

# Concept Stage

**Feasibility**

**Risk Identification**

**Evaluate Alternatives**

-

**Previous products**

**Parts (stress) count**

**Industry data**



# Design & Development Stage

**Test planning**

**Vendor evaluations**

**Evaluate alternatives**

**-**

**Test data**

**Vendor information**

**Stress analysis**



# Production Stage

**Process control**

**Change Management**

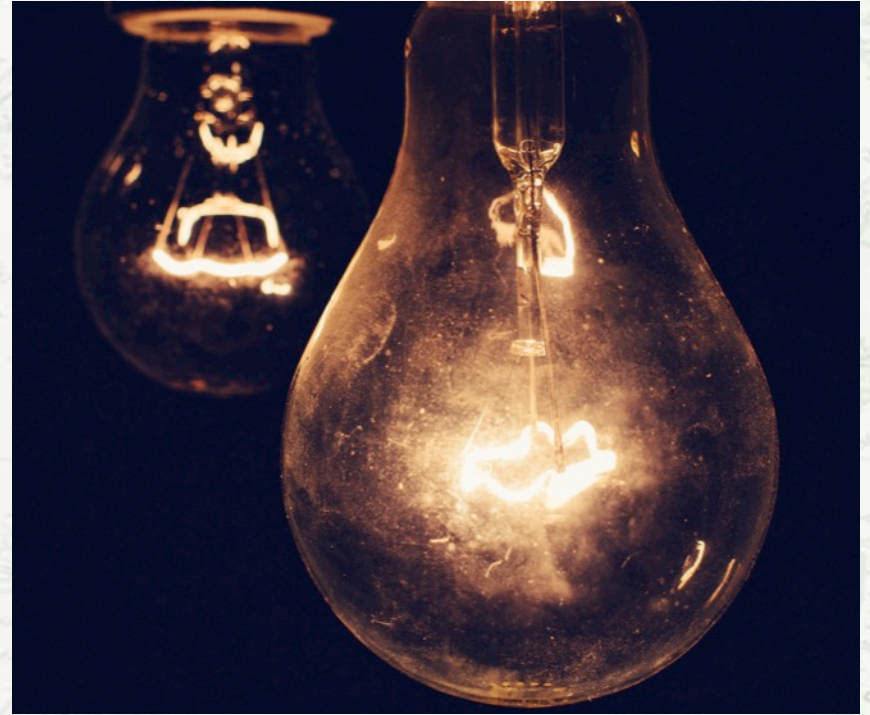
**Warranty estimates**

**-**

**Testing results**

**Customer (beta) data**

**Capability analysis**



# Deployment Stage

**Warranty tracking**  
**Spares planning**  
**Lessons learned**  
**-**  
**Field returns**  
**Customer calls**  
**Repair facility data**



Better Data,  
Better  
Predictions



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Uncertainty