



ASQ CRE Prep course

Lesson IV. B. 2. a.

Reliability Prediction Methods

Considerations

Polish that crystal ball

WHEN AND WHY ATTEMPT PREDICTIONS



Prediction Benefits

Guide decisions

Identify safety issues

Warranty accruals

Compare progress toward goals

Identify improvement areas

Concept Stage

Feasibility

Risk Identification

Evaluate Alternatives

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Previous products

Parts (stress) count

Industry data



Design & Development Stage

Test planning

Vendor evaluations

Evaluate alternatives

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Test data

Vendor information

Stress analysis



Production Stage

Process control

Change Management

Warranty estimates

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Testing results

Customer (beta) data

Capability analysis



Deployment Stage

Warranty tracking

Spares planning

Lessons learned

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Field returns

Customer calls

Repair facility data



Better Data,

Better

Predictions



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Reliability Prediction Methods

Uncertainty