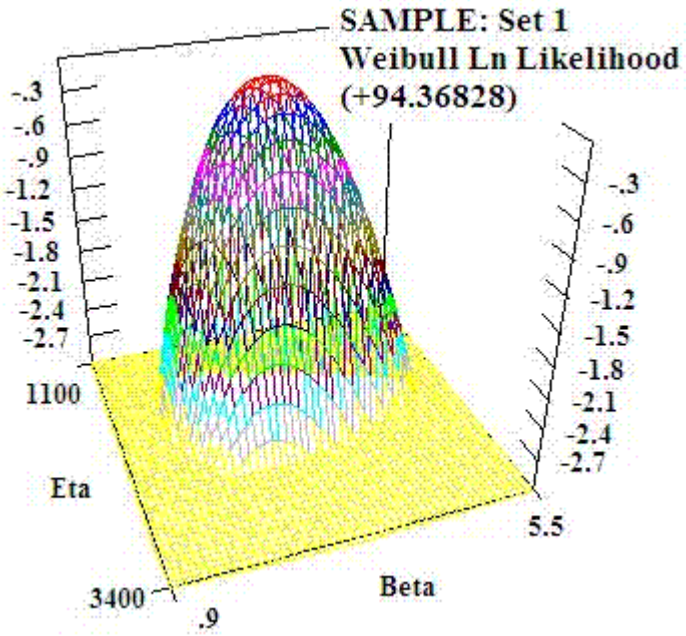
WEIBULL FOR THE 21st CENTURY



For Workshop Prices …

For Key Activity Schedule …

For a Complete List of Authorized Instructors …

>>> Go to **WeibullNEWS.com**

Smaller classes available.
Exclusive problem-solving techniques.
All workshop students receive the FULL SuperSMITH(R) software with the latest Weibull engineering programs and the latest Weibull engineering tutorial

"Every Engineer, Regardless of Their Endeavors Could Benefit from This Course".

John Lee, Senior Process Engineer
LAM Research

CONTACT:
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NEW… ½ Day Overview Session for Management Available with Any Workshop!

"This is THE Dream Package for Weibull Practicioners".

C. Julius Wang, USA Director
RMCtech

NOTE: SuperSMITH includes Weibull software, Visual Software, YBath(TM) software, plus the free online PlayTIME(TM) tutorial booklet. Dr. Bob Abernethy`s Weibull Handbook is available from AMAZON.COM and is easy to find and purchase.

2-DAY BASIC WORKSHOP
A Weibull / Lognormal introduction. Brings the novice up to working level. Covers analysis of good data, messy data, forecasting, optimum replacements, inspections, grouped data, Weibayes, test planning, and reliability growth modeling. Training includes hours of hands-on problem solving with SuperSMITH software to analyze example data found in the PlayTIME Computer Tutorial for SuperSMITH.

2 DAY ADVANCED WORKSHOP
Extends coverage to alternate fitting solutions such as maximum likelihood estimation (mle), distribution comparison, system and mixture solutions, confidence, significant differences, and related models. More time is included for student hands-on problem solving using SuperSMITH. There is additional time for details concerning simulation models or for follow-up consulting on data brought by each student.

3 DAY COMPLETE WORKSHOP
This time-tested complete workshop by Dr. Bob Abernethy is useful for most applications. From the beginning to the end with case studies for Automotive, Aerospace, Electric Power Plant, Chemical & Petro-Chemical Plant, Medical, and every type of commercial product or service. Coverage of the complete New Weibull Handbook(c) by Dr. Bob.

4 DAY EXTENDED WORKSHOP (BASIC + ADVANCED + SIMULATION + CONSULTING)
The complete workshop including both 2-Day sessions above. There is a discount for hosting the advanced workshop immediately after the basic workshop for the same people.

OTHER CLASSES, OTHER FORMATS AVAILABLE (SIMULATION + CONSULTING)
Contact us for more information.

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WORKSHOPS ONLINE OR HELD AT YOUR SITE

DAY 1 BASIC

Weibull analysis overview
23-minute video short course
How to do a Weibull analysis
Interpretation of Good Weibulls
Interpretation of Bad Weibulls - Cusps, dog-legs, curves, t0, Lognormal
Extremely small sample analysis. . .what are the risks?
Suspensions & sample size effects on uncertainty
Predicting failures with and without renewal
Case studies. . .customer usage. . .maintenance planning. . .goodness-of-fit with ccc and the new pve%
Crow-AMSAA reliability growth modeling. . .for tracking development testing and repairable systems maintainability
Weibull Experiments. . .wire data. . .classwork problems and solutions

DAY 2 BASIC

Experimental wire data distribution analysis
Optimal replacement intervals
Weibull analysis. . .improving accuracy, smaller samples, Weibayes
Weibayes substantiation tests. . .Have we fixed the problem? Zero-failure testing, sudden death tests, Simple models related to Weibull. PlayTIME with SuperSMITH software tutorial . . .hands-on computer experience solving problems. . .students may bring their own data for analysis with the software

DAY 2 ADVANCED

Emphasizes and expands basic concepts to cover likelihood solution, confidence methods, design comparison for significant difference, techniques for establishing goodness of fit (GOF), outlier detection, aggregate cumulative hazard, accelerated testing, degradation analysis, Monte Carlo simulation, Crow-AMSAA trending. More SuperSMITH software usage. . .hands-on computer experience solving problems. . .students may bring their own data for analysis with the software

DAY 3 (DAY 1 ADVANCED) CONFIDENCE + MODELS

Maximum likelihood Weibull theory and application
Rank regression (rr) vs. Maximum likelihood Estimation (mle). . .advantages/disadvantages
Alternate types of data . . . inspection and grouped with probit solutions
Interval mle
Confidence intervals
Are two Weibull data sets significantly different?
Additional PlayTIME tutorial work
Dauser shift
PlayTIME with SuperSMITH computer use tutorial plus time for participants to analyze their own data and problems.

DAY 4 (DAY 2 ADVANCED) YOUR DATA

Binomial & Poisson solutions
The exponential related to Poisson and Weibull
Kaplan-Meier survival for warranty analysis
System models - independent modes
Warranty analysis
Crow-AMSAA details
Monte Carlo simulaton. . .History and Principles
Monte Carlo simulation solutions
Example: The Cliff Walker
Transforming random numbers into real variables, like time to failure
Example: Ssystem simulation with renewal
Case Studies: Reliability, maintainability, safety systems models - dependent modes
PC hands-on simulation
Reliability and maintainability with RAPTOR and MONTE
Students receive copies of simulator software
And/Or time to analyze your data

1 DAY REFRESHER

The New Weibull Handbook latest edition
Failure forecasting (risk analysis)
- By part, component, system
- A month, a year, 5 years, 10 years ahead
- Labor costs forecasting
- Spare parts forecasting

Optimal renewal interval new capabilities
Crow-AMSAA . . . modeling updates
Tracking fleets for maintainability
Classic bi-Weibull and YBath solutions
New cost-effective test planning
Inspection data. . .new methods
Monte Carlo research. . .& surprises
Kaplan Meier survival analysis
Inspection data
Warranty analysis
Modified likelihood ratio tests for multiple data sets
The latest SuperSMITH software
Hands-on computer tutorial with your own problems and your own data

LECTURER

Wes Fulton is founder and CEO of Fulton Findings (TM) and the creator of SuperSMITH Weibull, SuperSMITH Visual, and several special programs for statistical research such as MonteCarloSMITH(TM) and BiWeibullSMITH(TM) software packages. He has 16 years experience as Program Engineer for Garrett Aiesearch aerospace systems. He supervised development and production engineering of aircraft flight control projects, and manueuvering fly-by-wire actuation systems. He co-patented the multi-fuseable shaft (a high-performance drive-train device) and is a member of ASME, ASQ, IEEE, and SAE. A lecturer in statistical modeling, he developed the Fulton Factor used in set comparison and originated the concept of assurance that equates reliability and confidence.

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