

# Relex University Courses: Relex Reliability Prediction Best Practices

Learn the Underlying Theory and Application of Relex Reliability Prediction Analyses

This three-day training class covers the theory and application of reliability prediction analyses through a combination of in-depth theoretical background and hands-on software application.

Relex Reliability Prediction Best Practices is designed to provide you with an in-depth look at Reliability Prediction analysis techniques and software features in Relex. Relex's highly trained instructors provide a detailed view of the theoretical principles and framework you need to more effectively perform reliability prediction analyses. This class combines a solid background in theory with hands-on practice applying the Relex Reliability Prediction module to real-world examples in the software.

## Key Benefits

### General Course Content

- Understand how to establish a system model and compute reliability metrics
- Study various ways to proficiently interpret and utilize the results to reach your reliability goals and objectives
- Learn about the wide range of standards, techniques, and factors available in Relex Reliability Prediction to augment your analyses
- Work step-by-step through core concepts to understand which principles apply to your specific needs
- Gain knowledge and expertise you can use to improve system design and increase system performance

### Reliability Prediction Topics Covered

- What is a Reliability Prediction analysis, and why perform one?
- What are the accepted standards and best practices in Reliability Prediction analysis?
- What are the advanced features and methodologies available in Relex Reliability Prediction to increase efficiency?



Relex University offers this course via live, instructor-led training at many locations throughout the country, or onsite at your facility.

### Experienced Course Instructors

- Relex courses are developed and taught by engineers with years of experience in reliability engineering and software applications
- Many Relex instructors are ASQ (American Society for Quality) Certified Reliability Engineers with advanced engineering degrees
- Instructors are well versed in all aspects of reliability engineering principles and bring a wealth of knowledge and experience from working with many clients across diverse industries

### Additional Benefits

- Immediately benefit from this comprehensive curriculum, and gain knowledge to use in your reliability tasks the very next day
- Question-and-answer time is offered throughout the class to help ensure you gain the knowledge relevant to your unique needs
- Regional training courses offered at many sites around the country mean there is sure to be a training class near you
- Onsite training can be provided at your facility and can be tailored to your organization's specific needs

## Course Agenda

### Day One: Introduction to Reliability Prediction Analysis Theory

- Reliability Prediction Best Practices Introduction
  - Welcome and Introduction
  - Course Overview
- Introduction to Reliability Prediction Analysis
- What is Reliability Prediction Analysis?
  - Definition
  - History
- Why is Reliability Prediction Analysis Performed?
  - Uses
  - Application
- What are the results of a Reliability Prediction Analysis?
  - Reliability Metrics
  - Confidence Levels
- What data is required to perform a reliability prediction analysis?
  - Empirical Approach
  - Factors to Augment Your Analysis
- What are the Constraints of a Reliability Prediction Analysis?
  - Proper Usage of Results
- Where can I learn more about Reliability Prediction Analysis?
  - Resources

### Day Two: Relex Reliability Prediction Fundamentals

- Reliability Prediction Overview
  - Creating and Editing Systems, Assemblies, and Parts
  - Parts Libraries / Importing Parts
  - Calculations / What-if? Scenarios
  - Generating Reports / Using the Report Wizard
  - Creating Graphs / Using the Graph Wizard
  - Exporting Data / Using the Export Wizard
- Additional Features
  - Prediction Optional Settings
  - Component Libraries
  - Mission Profiles
  - Reliability Calculations

### Day Three: Relex Reliability Prediction Advanced Topics

- User Interface Customization
- Advanced Data Entry
  - Building and Updating Component Libraries
  - Correlating Part Numbers
  - Importing BOMs
- Advanced Data Analysis
  - Filtering Data
  - Mission Calculations
  - Allocations
  - Derating Analysis
- Advanced Data Output
  - Export Templates
  - Interfacing with Microsoft® Excel
  - LSAR Output
- Data Linking and Usage with Other Relex Modules
  - FRACAS
  - Weibull
- Additional Advanced Topics

## For More Information

For more information or to schedule a class, please visit  
[www.relex.com/services/training.asp](http://www.relex.com/services/training.asp)

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