

Relex University Courses: Relex Fundamentals

Gain the Expertise You Need to Manage Your Reliability Analysis Tasks

This three-day training class will introduce you to the power and flexibility of Relex through detailed instruction in the key terms, navigation, and reliability techniques used throughout the program.

Relex Fundamentals is designed to get you up and running with Relex 2009, enabling you to quickly maximize your investment. Every Relex course combines a solid theoretical framework with hands-on instruction in software features and functionality. Sample projects based on real-world scenarios are used throughout the course to help you understand and apply the software. An in-depth look at reliability engineering theory is provided by Relex's highly trained instructors, many of whom are ASQ Certified Reliability Engineers.



Relex University offers this course via live, instructor-led training at many locations throughout the country, or onsite at your facility. This course is also available in a self-paced online format.

Key Benefits

General Course Content

- In-depth overview of Relex software tools, navigation, and terminology throughout the program
- Detailed introduction to the core concepts, functions, and features common to all of the Relex software modules
- Thorough demonstration of specific analysis modules highlighting the unique features and capabilities of each one
- Hands-on exercises to practice using software features and functions, apply concepts, and demonstrate understanding
- Question-and-answer sessions to ensure students' specific needs are met throughout the course

Relex Modules Covered

- Relex Reliability Prediction
- Relex FMEA (Failure Mode and Effects Analysis)
- Relex OpSim (an RBD—reliability block diagram—tool with Optimization and Simulation analysis capabilities)
- Relex Fault Tree

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 and Reliability Prediction

- Welcome and Overview
- Introduction to Relex
 - Important Terminology
 - Starting Relex
 - Relex Help
 - Useful References
- Reliability Prediction Fundamentals
 - Reliability Prediction Overview
 - Data Entry: System, Assemblies, and Parts
 - Data Analysis: Calculations, What-if? Scenarios
 - Data Output: Generating Reports and Graphs
 - Exporting Data
 - Additional Features

Day Two: Common Features and FMEA

- Relex Common Features
 - Table Customization
 - Importing Data
 - Data Filtering
 - Creating Graphs
 - Report Generation
 - Exporting Data
 - Common Library
- FMEA Fundamentals
 - FMEA Tree, Items, Modes and Causes
 - FMEA Roll up and Building
 - Functional and Process FMEAs
 - Calculations
 - What-if? Scenarios
 - Creating Graphs
 - Generating Reports
 - Exporting Data
 - Additional Features

Day Three: OpSim and Fault Tree

- OpSim Fundamentals
 - OpSim Overview
 - Building and Organizing Diagrams
 - Redundancy
 - Analytical Calculations
 - Monte Carlo Simulations
 - Creating Graphs
 - Generating Reports
 - Exporting Data
 - Additional Features
- Fault Tree Fundamentals
 - Fault Tree Overview
 - Gates and Events
 - Transfer Gates
 - Calculations
 - Cut Sets
 - Creating Graphs
 - Generating Reports
 - Exporting Data
 - Additional Features

For More Information

For more information or to schedule a class, please visit www.relex.com/services/training.asp

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