



# Reliability - System Reliability Analysis

Course #1015

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## Course Details

**Length:** 1 day

**Prerequisite:** Reliability Analytics - User

**Benefits:** This course provides an introduction to System Reliability tools, which you may use to analyze maintenance, predictive, and process data for equipment in a system.

**Audience:** Managers, General Users

## Overview

### System Reliability Analysis

You will build a simple System Reliability Analysis and learn how to refresh System Reliability Analysis results. You will build Ad-hoc Elements for a System Model and enter properties for them.

### Monte Carlo Simulations

You will work with Monte Carlo Simulation Settings and learn how to interpret the Simulation results in a Histogram view. You will learn how to change the Confidence Level and view the Event Log for a single iteration. You will also change the Analysis Period to simulate the impact.

### Parallel Components

You will add Parallel Components to the System Model and link Reliability Distributions to them.

### Production Contribution

You will learn how Production Contribution is used to calculate the overall Production Loss of the system when one or more parallel elements are down, and how to account for Production Contribution.

### Adding Spares to a System Model

You will learn how to add Spares, Switches and Sensors to a System Model.





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## Training Agenda

### System Reliability Analysis

- Building a Simple System Reliability Analysis
- The System Model Palette
- Refreshing System Reliability Analysis Results
- Entering System Model Data in the Grid Mode

### Monte Carlo Simulations

- Monte Carlo Simulation Settings
- Viewing Monte Carlo Simulation Results in a Histogram
- Changing the Confidence Level
- Viewing the Event Log for an Iteration
- Changing the Analysis Period
- Viewing Impact information

### Parallel Components

- Adding Parallel Components to a System Model
- Setting Properties for Parallel Components
- Adding a Link to the System Model
- Linking Reliability Distributions to Parallel Components

### Production Contribution

- Calculating overall production loss of the system when one or more parallel elements are down

### Adding Spares to a System Model

- Adding a Spare Pump to a System Model
- Adding Switches and Sensors to a System Model