

## Learn how to incorporate reliability principles into the product development process

**Reliability for Product Development** expands on Fundamentals of Reliability concepts, focusing on hands-on application of reliability analysis tools at the appropriate stages of the product development cycle. Special emphasis is placed on practical skills in quantifying a product's reliability requirements, verifying that reliability requirements are met through data analysis and testing, and tracking reliability growth to target. Reliability for Product Development teaches how and when to integrate quantitative reliability analysis into the product lifecycle.

This course will help you understand how to incorporate reliability practices and analysis methods into the product development process, with a heavy emphasis on hands-on exercises in ReliaSoft Weibull++ / ALTA and ReliaSoft BlockSim, as well as an introduction to ReliaSoft RGA.

The Reliability for Product Development course is for reliability engineers who need hands-on experience with reliability engineering analysis methods and integrating those methods into the design process to create reliable products.

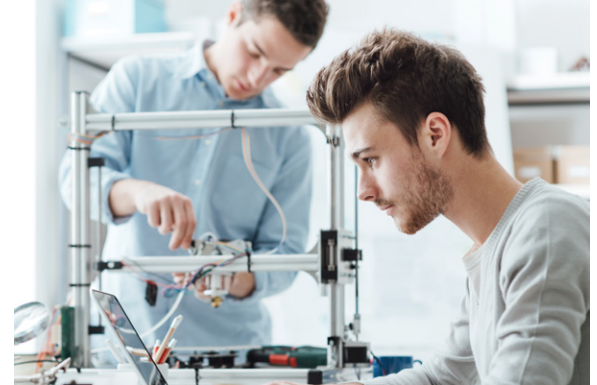
Recommended Foundational Course(s): Fundamentals of Reliability

### Learning objectives

- Review theory covered in the Fundamentals of Reliability course and reinforce key concepts and Design for Reliability (DFR) principles
- Develop extensive hands-on experience with reliability tools for product development by working through a sample DFR process and the associated analyses
- Understand how to best integrate reliability analysis into the product development process and set design priorities, identify usage conditions, design tests and track reliability growth
- Define meaningful reliability requirements and demonstrate that an item meets those requirements
- Become familiar with the applications of essential reliability data analysis methods and tools such as: Accelerated Life Testing, Destructive Degradation Analysis and Reliability Block Diagrams

### Topics included - 3 days

Reliability statistical concepts	Reliability data types	Reliability metrics	Weibull and life distribution analysis
Warranty analysis	Fault tree analysis	Reliability block diagrams	Accelerated life testing
Destructive degradation	Competing failure modes	Stress-strength analysis	Object-based reliability modeling
Reliability test strategy	Reliability growth analysis		



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