

Design For Six Sigma

Six Sigma Training That Improves Your Bottom Line



Six Sigma Qualtec

Design for Six Sigma is a rigorous approach to designing products and services that gets it right the first time. The result – product designs that consistently meet customer requirements, projected costs, targeted release dates, and production capabilities.

Design For Six Sigma Overview

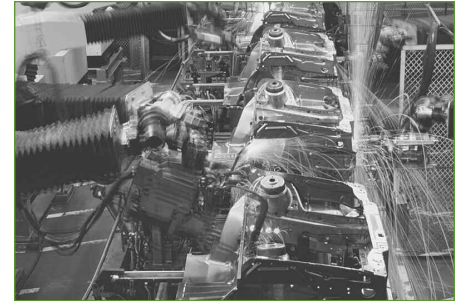
Design for Six Sigma (DFSS) is a rigorous approach to designing products and services to meet customer expectations. Companies implementing Six Sigma find that many defects are actually created during the design process. DFSS facilitates a redesign of processes – factoring in manufacturing and transactional capabilities from the very beginning – and ensures that end products are “producible” using existing technology. Additionally, DFSS integrates the engineering and process design functions enabling concurrent product and process design, thereby eliminating defects before they can occur.

Integrating the principles of MAIC (Measure, Analyze, Improve, Control) with design tools and the IDEaS™ (Initiate, Design, Execute and Sustain process), the result is product designs that consistently meet Six Sigma standards – from inception.

The Program

Six Sigma Qualtec's DFSS class integrates the principles of MAIC with design tools and IDEaS™, a four-phase design process combining technical and business issues). The result – product designs that consistently meet customer requirements, projected costs, targeted release dates, and production capabilities. requirements, projected costs, targeted release dates, and production capabilities.

“ Since Qualtec completed DFSS training of our production line technicians our costs are down, product waste is under control and customer satisfaction is up. ”



Course Objectives

Upon completion of the program, the attendee will be able to:

- Complete a product design using the IDEaS Process
- Complete a tollgate check list and a risk assessment
- Identify significant factors that drive the financial performance of a project
- Develop a multi-generation plan for a product or process
- Complete a process map of design methodology
- Capture the voice of the customer using VOC techniques
- Use QFD to translate customer requirements into design requirements
- Complete a product scorecard for design
- Application of DFMA
- Use reliability data to make estimate of field failure rates
- Use unit production cost (UPC)
- Demonstrate tolerance analysis
- Select equipment based on needed capability

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Classroom Training	Each session of classroom training is separated by several weeks of project application in your workplace.	Your organization's bottom-line will benefit while your DFSS attendee is in training when they bring a project from your organization to the classroom.
	Course Modules	Training Agenda
Session 1 4 days	Introduction to DFSS	<ul style="list-style-type: none">• The IDEaS™ Process• Tollgate Reviews• Project Risk Assessment• Project Financial Analysis• Multi-Generation Planning• Voice of the Customer• QFD• Product Scorecard• Project Cost Analysis
Session 2 4 days	Measurement and Analysis	<ul style="list-style-type: none">• Statistical Tolerance Analysis• Design for Manufacturability• Introduction to Product Reliability• Reliability Testing• Reliability Predictions• Planned and Preventative Maintenance• Capital Equipment and Tooling Selection

Course Assessment

The participants will complete an in-class project, requiring the IDEaS™ design process and the selection and use of appropriate design tools. A rubric is then used to measure each participant's competency in the tools and IDEaS design process.

Prerequisite

MAIC – Black Belt Training

Public Seminars

SSQ offers a one week Open Enrollment version of DFSS. Visit our website for dates and cities.

Mentoring and Support

Every DFSS candidate receives support throughout the training process, including an on-site visit, assistance and monitoring of the candidate's "real world" project. Six Sigma Qualtec's training and support services fully equip candidates to achieve and sustain improvements to your business long after certification training is completed.

Enterprise-Wide Deployment: We See the Big Picture

Six Sigma Qualtec is unique in the training industry, providing enterprise-wide training that focuses on overall corporate strategies. An initial assessment is used to map-out specific training and technology needs and to focus implementation on broader corporate objectives. Support continues beyond the training phase, ensuring alignment of all projects and sustainability of process improvements. Qualtec has been involved in building ground-floor process improvement initiatives that have significantly enhanced productivity, efficiency and customer satisfaction at world-class companies including Nokia, General Electric, Fannie Mae and Owens Corning.