

# Design For Six Sigma

Integrating MAIC with Design Tools and the IDEaS™ Process



Six Sigma Qualtec

## 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 makes engineering or process designers aware of the need for concurrent product and process design, thereby eliminating defects before they can occur.

## The Program

Six Sigma Qualtec's DFSS is a 5-day program taught over the course of one-week. **The DFSS class integrates the principles of MAIC with design tools and IDEaS™**, a four-phase design process combining technical and business issues (Initiate, Design, Execute and Sustain), resulting in product designs that consistently meet Six Sigma standards – from inception. Results in product designs that meet customer requirements, projected costs, targeted release dates, and production capabilities.

## 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 adherence to the IDEaS design process.



## COURSE COMPONENTS

- Product design using the DFSS IDEaS™ Process
- Tollgate check list & review
- Risk Assessment
- Identify leading 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
- VOC techniques
- Use QFD to translate customer requirements into design requirements.
- Complete a product scorecard for design
- Utilize unit production cost (UPC) to select supplied parts and vendors
- Tolerance analysis
- Application of DFMA
- Predict field failure rates
- Select equipment based on needed capability

# REGISTRATION

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## Design For Six Sigma Registration

Please select a seminar date. Submit a separate form for each person attending.

### Registration Information

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Telephone \_\_\_\_\_ Fax \_\_\_\_\_  
E-Mail \_\_\_\_\_

### Seminar Fee

DFSS Training registration fee = \$3,500.00

### Registration Includes

- Five days of intensive training while completely an in-house project.
- Continental breakfast and lunch will be provided.
- Six Sigma Qualtec course manual.

### Payment Information

American Express  MasterCard  Visa  Check Enclosed  
Card Number \_\_\_\_\_ Expiration Date \_\_\_\_\_  
Cardholder's Name \_\_\_\_\_  
Signature \_\_\_\_\_  
Billing Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Cancellations:** Attendees canceling 7-30 days prior to the event will be charged a \$250 processing fee. Attendees canceling less than 7 days prior to the event will be charged the full seminar fee.

**Disclaimer:** SSQ retains the right to move, reschedule or change the class at any time. Additional expenses include travel to attend the training.

**Logistics:** After your registration form is processed, you will receive a confirmation letter with the specifics of the event. Participants are responsible for making their own travel and hotel arrangements.

**Attire:** Business Casual



### 2006 SEMINARS

- PRINCETON, NJ  
September 18-22

### 2007 SEMINARS

- TEMPE, AZ  
January 15-19
- PRINCETON, NJ  
May 14-18

### Prerequisites

#### MAIC –Black Belt Training

Hours are 8:00 a.m. - 5:00 p.m.

For information on this training program, call 800-247-9871 or email [info@ssqi.com](mailto:info@ssqi.com)

To register complete a registration form and fax back to 480-586-2586

Participants are responsible for their own travel and hotel accommodation arrangements.

**Fax complete registration forms to 480-586-2586**