

DESIGN FOR SIX SIGMA (DFSS) METHODOLOGY & IMPLEMENTATION



Objectives

This Training is designed for individuals to acquire the knowledge on the methodology of the Design for Six Sigma and to prepare individuals to implement DFSS in the workplace. The course had been designed specifically to enable individuals to benefit from DFSS Methodology and DFSS Techniques through work group breakout discussions, quiz and case studies.

Design for Six Sigma is a logical and systematic application that can be integrated into a company's existing product, equipment, process, service development and improvements by re-engineering. When it is properly deployed, the organization will evolve into a Six Sigma organization where products, equipment, processes and service can be designed, developed, launched or manufactured, and sold with Six Sigma quality and capability meeting the customer needs, leading to product innovation, consistency, reliability and sustainable sales, revenues and profits.

Duration

3 days | 9am – 5pm | 21 hours

Who should attend

Managers, Staff Engineer, Senior Engineers and Engineers for Quality and Reliability, Design & Development, Manufacturing and Service sectors involve in process, product or service improvements or re-engineering or development.

Course Fees

Member: \$929.77
Non-Member: \$1,031.14

All fees stated are inclusive of Registration Fee and 9% GST

Award of Certificate

Certificate of Completion will be issued to participants who have attended at least 75% of the course.



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Course Contents

Apply DFSS Methodology and its Implementation

1. Identify the application of Design for Six Sigma with respect to traditional and Lean Six Sigma
2. Learn and evaluate the DFSS IDOV methodology
3. Apply the method of establishing accurate customer requirements.
 - The Customer Value-Hierarchy
 - Prioritizing efforts toward satisfying customer
4. Learn and apply the customer requirements (CTQs) flow down methodology to design
 - Business opportunity assessment
 - House of Quality
 - Risk analysis
5. Analyze test variation, process capability and measurement system analysis techniques to enhance your design
 - Probability of non-conformance
 - Short and long-term capability
 - The six steps of SPC
6. Diagnose DOE optimization and the transfer function methodology
 - Types of transfer functions
 - Illustrations of interactions and optimization
7. Learn and apply Test variations analysis and the DFSS Design Scorecard
 - How to compile scorecard?
 - Quality prediction
8. Apply Reliability analysis techniques, tollgate review and the validation methods
 - Load-Strength analysis and the Bath Tub Curve
 - The six phases of Tollgate
 - Phase by phase validation



Please refer to this URL
<https://www.sqi.org.sg/courses/>
or QR Code for soft copy and
updated training schedule

Membership Application

Register membership online at www.sqi.org.sg/membership-join/ or contact us to get the membership application form.

Membership Categories:

- ~ Organisation membership
- ~ Individual membership

Singapore Quality Institute (SQI) operates as a non-profit professional institute that promotes and advances excellence in the field of quality in Singapore; and actively champions quality initiatives in the region and around the world through networking and collaborating with other international quality organisations.

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