



Our 200 Participants got certified from ASQ in last Eleven exams!

Get a breakthrough in your career!

World Class Six Sigma Black Belt Training

Starting 5th February 2012
For 15 Sundays up to 20th May 2012.

Certification Exam by

**American Society for Quality (ASQ)
Certified Six Sigma Black Belt Examination**

To be held in October, 2012

www.qcserv.com
qcservices@vsnl.com

Introduction

Six Sigma

Six Sigma is a Top Management driven formal process that uses a variety of business process improvement tools, including Statistical Tools. Variability and variations are a source of loss of productivity, customer dissatisfaction with the product / service, increased cost and delays in delivery. Six Sigma is a customer driven top management led battle against variability and variations of all types using the DMAIC (Define, Measure, Analyze, Improve, and Control) methodology. This standardized approach, if applied throughout the organization, can lead to substantial reduction of variability and variations by creating sensitivity for noticing, analyzing and reducing variability and variations to a predetermined standard for the organization (the Six Sigma scale). It inculcates the approach of economic and innovative solutions by involving all the concerned persons, with appropriate training and teamwork.

American Society for Quality (ASQ)

ASQ Certification

Certification is formal recognition by ASQ that an individual has demonstrated proficiency within and a comprehension of a specified body of knowledge at a point in time. It is peer recognition and not registration or licensure. Since 1968, when the first ASQ certification exam was given, more than 1,00,000 individuals have become certified through ASQ, including many who have attained more than one designation. Although ASQ membership is not a prerequisite for certification, most of the people who hold one of these designations do belong to the Society. Certification ranks as one of the top benefits of ASQ membership.

Only about 700 candidates have obtained ASQ Six Sigma Black Belt Certification so far in India, and they are in great demand! 200 of these are trained by us at QC Services!

Six Sigma Black Belt training Details

- **Eligibility : FOR ASQ Certification**
 - For ASQ exam:-Submission of affidavit from project sponsorer for having completed at least one improvement project successfully. The sponsorer may be employer or from friendly organization.
 - The improvement can be in terms of cost, defects, design, cycle time, etc.
 - Two project affidavits required for candidates having less than three years of experience.

- **Study Material & Project Guidance :**
 - QC Services will provide 2 books including ASQ CSSBB handbook. However, participants may have to purchase additional books depending upon their knowledge and experience.
 - Guidance for submitting project affidavit to ASQ will be provided.
 - Simulated project will be completed by participants for QC Services project certification.

- **Minitab Training:-**
 - 2 days are reserved for Minitab Software training and practice which is required for Black Belts.

- **Time :**
 - Sunday Program: Every Sunday, starting 5th February 2012, 15 Sundays up to 20th May 2012.
 - Timing: Sunday Program: 9.00 a.m. to 5.00 p.m.

- **Venue:- Pune**

- **Costs :**
 - QC Services training charges are Rs.40,000/- + 10.30% Service Tax. This includes training, certificate, training material and lunch & refreshments.
 - Early Bird Discount :
 - @10%:- For full payment before 5th January ,2012
 - @7.5%:-For full payment before 20th January 2012
 - @5%:- For full payment before 1st February 2012
 - QC Services training charges can be paid in 3 installments of Rs. 14,707/- each, one at the time of registration in cash and 2 post dated cheques. Payment by installment will not attract any discount.
 - ASQ exam charges are US\$ 379/- payable separately by candidates. Associate membership charges US\$ 80/- + ASQ CSSBB exam charges US \$ 299/-

- ASQ Exam charges can be paid in INR to ASQ India for details visit www.asq.org.in

➤ Requirement:

- Participants can bring their own laptop or will be made available on rent. Laptop is required for last three days during the program.

➤ Exam Center :

- ASQ Examination: Participants can appear for ASQ Black Belt certification exam after this training in October, 2012. This examination is conducted at various locations in India including Pune.

➤ Additional Information :

- Visit www.asq.org for more details. Also contact us for syllabus and registration form.

Contact Details

Please contact for further details,

G. H. Rahalkar

Director

QC Services

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Contents of Six Sigma Black Belt Body of Knowledge for ASQ Examination

I. Enterprise-Wide Deployment

- a. Enterprise-wide view
- b. Leadership

II. Organizational Process Management and Measures

- a. Impact on stakeholders
- b. Critical to x (CTx) requirements
- c. Benchmarking
- d. Business performance measures
- e. Financial measures

III. Team Management

- a. A Team formation
- b. Team facilitation
- c. Team dynamics
- d. Time management for teams
- e. Team decision-making tools
- f. Management and planning tools
- g. Team performance evaluation and reward

IV. Define

- a. Voice of the customer
- b. Project charter
- c. Project tracking

V. Measure

- a. Process characteristics
- b. Data collection
- c. Measurement systems
- d. Basic statistics
- e. Probability
- f. Process capability

VI. Analyze

- a. Measuring and modeling relationships between variables
- b. Hypothesis testing
- c. Failure mode and effects analysis (FMEA)
- d. Additional analysis methods

VII. Improve

- a. Design of experiments (DOE)
- b. Waste elimination
- c. Cycle-time reduction
- d. Kaizen and kaizen blitz
- e. Theory of constraints (TOC)
- f. Implementation
- g. Risk analysis and mitigation

VIII. Control

- a. Statistical process control (SPC)
- b. Other control tools
- c. Maintain controls
- d. Sustain improvements

IX. Design for Six Sigma (DFSS)

Frameworks and Methodologies

- a. Common DFSS methodologies
- b. Design for X (DFX)
- c. Robust design and process
- d. Special design tools

About US

OUR PROFILE

QC Services, established in 1984, is a Premier Quality & Productivity Management consultancy organization.

We have highly qualified & experienced consultants / trainers who have vast experience in implementing various modern management techniques in manufacturing & service sector. Our consultants have worked with organizations in India and abroad.

We are leading consultants in service sector for implementation of Advance Statistical Methods for process improvement and modeling for implementing CMMI level 4 /5 version 1.2.

During last four years we have trained over 700 Black Belts & over 200 have achieved ASQ Black Belt Certification and over 450 have obtained certification by Six Sigma Management Institute, USA.

QC Services was closely involved with Mahindra & Mahindra, Farm Equipment Sector, during their implementation of Deming Award.

A proven track record of implementing

- Six Sigma
- Lean
- Statistical Process Control
- Design of Experiments – Classical & Shainin Methods
- Single minute Exchange of Dies
- Employee Involvement through Quality Circles, Kaizen
- TQM

For the details,

Please contact us at qcservices@vsnl.com
or visit us at:- www.qcserv.com

CLIENTELE

- Mahindra & Mahindra
- Thermax
- Crompton Greaves
- Siemens
- Tata Motors-Pune
- Bharat Forge
- JCB India
- KCD- Kirloskar Group, Solapur
- Nihilent Technologies
- IBM – Cairo
- Hyper Quality
- Ahmednagar Forgings
- Bajaj Auto
- Dembla Valves
- Diebold, Goa
- Divgi Warner
- Force Motors (Bajaj Tempo)
- Garware Polyesters
- Garware-Wall Ropes
- Godrej
- Hindustan Composites
- Kalyani Lemmerz
- Keihin Fie
- Kirloskar Copeland-Karad
- Newage Electricals India
- NTCP, Delhi
- Poonawalla Group
- Reliance Energy
- Sandvik Asia
- SKF Bearings
- Sterlite Limited
- Suzlon Energy
- TATA Fiat, Pune
- Tecumseh India
- Uttam Galva Steels
- Whirlpool India
- Wyeth Limited

Brief Introduction of Faculty / Our Resources

MR. G. H. RAHALKAR:

Has around thirty five years of experience in industry and consultancy. A graduate engineer from I.I.T. Bombay (B.Tech.) and postgraduate in Business Administration (M.B.A.) from University of Pune, he is a Six Sigma Master black belt (ISI Bangalore), Certified Six Sigma Black Belt from ASQ (American Society for Quality) as well as Motorola University.

Mr. Rahalkar has completed CQM (Certified Quality Manager) certification from ASQ (American Society for Quality).

Mr. Rahalkar visited Japan in 1978 and 1982, to study Japanese Manufacturing Systems. Mr. Rahalkar visited IBM Egypt in Sept 2008 for an assignment on CMMI Level 5 implementation.

He has successfully implemented several modern concepts such as SPC, Value Adding Management, Lean Manufacturing, DOE, Kaizen, TQM, Quality Circles, Productivity Improvement etc. in a number of Indian and multinational companies such as Mahindra & Mahindra, Siemens, Tata Motors, Thermax, Bharat Forge, Crompton Greaves, Escorts JCB, KOEL – Castings Division, Uttam Galva Steels etc.

He was closely involved with Mahindra & Mahindra, Farm Equipment Sector, during their implementation of Deming Award.

He has published over twenty papers on quality, productivity and employee involvement in Indian and American magazines. His two papers were published in Quality Digest, USA in June 1988 and June 1989.

He has trained Six Sigma Black Belts and Green Belts at Tata Motors, Pune. He is involved in implementing Six Sigma at Uttam Steels, Khopoli and Hyper Quality, Gurgaon.

During the last four years Mr. Rahalkar has guided over 700 candidates through over twenty five Black Belt Programs for ASQ, over 200 of Mr. Rahalkar's students are certified as Six Sigma Black Belts by ASQ (American Society for Quality) so far. He has also guided many of these students in completing their projects for ASQ certification.

Mr. G. H. Rahalkar is a senior member and approved faculty for American Society for Quality for Lean Six Sigma Black Belt training programs in India and abroad.

Mr. Rahalkar is involved with IT/ Software industry for implementing advanced statistical applications for CMMI Level 4 / Level 5 certification (Version 1.2). He is involved with Nihilent Technologies and their clients for this application, including IBM Egypt, where Mr. Rahalkar visited in Sept 08.

MR. PRABHAS SURANA :

- Is a rank holding Mechanical Engineer and a graduate in Industrial Engineering with a total exposure of more than 27 yrs. in the Indian Industries.
- International Certifications:
 - Certified Six Sigma Black Belt by American Society for Quality (ASQ)
 - Certified Quality Manager (CQM) by American Society for Quality (ASQ)
 - Certified Quality Engineer(CQE) by American Society for Quality (ASQ)
 - Certified Software Quality Engineer By American Society for Quality (ASQ)
- National Certification:
 - Certified Six Sigma Black Belt by Assocham
 - Certified Assessor for CII – EXIM Bank – EFQM Award
 - Is a certified Lead Auditor and has also completed his D.B.M.
 - Attended Six Sigma Training by Dr. Keki Bhote who was with Motorola during their Six Sigma revolution
 - Working experience of 17 yrs. in various reputed companies like Tata Motors, Electronics Machine Tools, Kinetic Engineering, Kirloskar Electric Co. in the areas of Manufacturing, Quality Assurance, Vendor Development, Vendor Quality Improvement and Purchase and Materials
 - For last 10 yrs., as a Consultant he has been instrumental in helping many companies such as
 - Mahindra & Mahindra
 - Siemens
 - Tata Motors
 - Thermax
 - Crompton Greaves
 - Escorts JCB
 - KOEL – Castings Division
 - Force Motor Co. (Bajaj Tempo)
 - Bharat Forge
 - Uttam Galva steels

in the areas of training & implementation of SPC, Lean Manufacturing, Product Standardization & various modern manufacturing system like SMED, Poka-yoka, DOE, FMEA etc.

- Closely involved with Mahindra & Mahindra, Farm Equipment Sector, during their implementation of Deming Award.
 - Is actively involved in Training & on the job guidance for many Six Sigma Black Belt Projects
 - Well versed with EMS and ISO / TS Systems.
- Has helped more than 70 companies achieve these certifications

Other Associate Faculty is from industry.