

**Improve Your Career Performance!!**

**LEAN SIX SIGMA BLACK BELT**

**TRAINING**

**Reduce Rejection/Defect/Deviation/Waste & Cost, and Improve Productivity.**



**12 Days Duration**

**Course Fee/Participant: Rs.20,000/-+ GST(18%)**

**Lean Six Sigma** is a business approach for continual improvement which focuses on reducing waste and variation from manufacturing, service or design processes. Lean Six Sigma drives continual improvement, building a philosophy that is the foundation of all effective management systems and any business that wants to grow and progress for the future.

**What is Lean Six Sigma Black Belt ?**

Lean Six Sigma Black belt program aims to provide medium level capabilities to run six sigma projects in the companies. Lean Six Sigma Black Belts are the professionals from Quality and Process Improvement departments who work under the guidance of Lean/Six Sigma Black Belt in various problem solving and quality improvement activities in the Lean/Six Sigma program being run in organizations. A company which embarks on six sigma strategy needs a number of Black belts, who form a part of six sigma project teams.

Certified Lean Six Sigma Black Belt training will help you to increase the organizations productivity by reducing the waste and become more competitive. It helps individual to enhance professional skill and opportunities for career building. The course is practically designed to make it easy to learn & understand. A certificate award bearing the SQMS seal signifies a well-known, uncompromising standard of excellence.

## **Course Overview**

### **Accreditation**

UAB, UK accredited training

### **Training Duration**

Participants will attend 16 hours of classroom training.

### **Who should attend?**

Those who are responsible for, or are looking to contribute to, high impact projects by incorporating Lean Six Sigma methodology.

- Professional Aspirants, Practitioners who want to improve their professional knowledge
- CEOs, Directors and Senior Managers
- Students from Engineering (All branches), Pharma, Statistics, MBA etc.

### **Course Content**

The body of knowledge of this course is compactible to the one defined by the American Society of Quality – ASQ. The trainer's methodology is also ensured to the highest level.

#### **Define**

Introduction to DMAIC, Lean VOC-  
CTQ  
Pugh Matrix / Prioritization matrix  
Project Charter  
Process Map and SIPOC

#### **Measure**

Statistical measures  
Sigma Level, Takt time  
Data collection  
8 Waste

#### **Analyse**

Process Mapping: VA/NVA Analysis, VSM  
Failure modes and effects analysis  
7 QC Tools: Fishbone, Pareto Plots, Histogram, Scatter Plots, Process flow Simple Linear  
Correlation & Regression  
Measurement System Analysis: GR&R

#### **Improve**

5S, Visual Standards, Kaizen JIT,  
Heijunka  
Poka Yoke, Benchmarking  
DOE  
Hypothesis Testing  
ANOVA

### **Control**

Statistical Process Control using Control Charts Process  
Capability indices – Cp, Cpk  
Lesson Learnt and Handover to Process Owner Project  
Closure

### **Training Package**

Hard copy of Black Belt+Lean Course material Analysis data files  
and course exercises  
One Simulation case study  
Lean Six Sigma Black Belt Exam Fee  
Refreshment on training days  
Lean Six Sigma Black Belt Completion certificate

### **Programme Faculty**

**Dr. Ramesh Lakhe,**

**(Mob.9822469560, 0712-2240012)**

Ph.D. (Industrial Engineering) NITIE, B.E.(Mech),

M.Tech.(Prod.), Dip.Trg.&Dev.

MBA., M.A.(Socio) (Pub.Admt.)

Qualified ISO 9001 QMS, ISO 14001 EMS, ISO 50001 EnMS, OHSAS 18001 Lead Assessor,

Master Black belt in Six Sigma, QCI registered Lean consultant

- 33 Years of Industrial, Consultancy, Training, Audit and Research experience
- Author of „ ISO 9001:2015 QMS requirements, interpretations and implementation“. Co- author of Two books; 'Handbook of Total Quality Management' & 'Total Quality Management for Service Sector' (Published by JAICO Publication)
- Active member of various professional associations such as IE(I), ISTE, IIIE, ISE, ISTD, IIPE, IIMM, NIQR
- Ex-Chairman ISTD Nagpur Chapter, Ex-National Executive Councilor ISTE, Ex-Member Maharashtra State Managing Committee IE(I), Member -Local Managing Committee IE(I) Nagpur and Member of Educational Committee NCQM.
- Trainer & Consultant for NABH, NABL, TQM, Quality Awards, ISO 9001, IATF 16949, SEI-CMM&ISO 14000 EMS, OSHAS 18000, HACCP, Six Sigma in India and abroad.
- provided consultancy to more than 100 organisations both from manufacturing & service sectors for process improvement.

## ABOUT SQMS

**Shreyas Quality Management Systems** is a management training & consultancy firm focused on organizational performance improvement through the globally accepted tools such as Lean manufacturing, 5S, ISO 9000, ISO14000 EMS, ISO45001, IATF 16949, TPM, ISO17025 Lab

Accreditation, NABH, TQM, quality costs, Lean Six Sigma, design of experiments etc. **SQMS is accredited by Consultancy Development Centre, Govt of India , ISO9001 QMS, ISO14001EMS & OHSAS 18001 certified, and also MSME/QCI Registered Lean Consulting Organization.** It is lead by Dr. Ramesh R. Lakhe who has completed his Doctoral Program from NITIE Mumbai and is Registered Sr. Consultant ISO 9001 with NRBPT, LQMS ISO 17025(NABL) Principle Consultant with QCI, New Delhi,. SQMS has well qualified, trained and experienced team in diversified areas.

SQMS has been associated with Institution of Engineers (I) Nagpur and has conducted many programmes on professional development. **For last more than 10 years SQMS along with Institution of Engineers (I) Nagpur is organizing All India Seminar „Quality Progress”.** This seminar provides platform for researchers, academicians, professionals to interact and present case studies and research. This seminar also conducts the competitions for organizations such as “Quality Circle competition, 5 S & Kaizen Competition, Six Sigma Competition” etc. in which participation from very large number of small, medium, large, Govt, public sector & private organization takes place.

**SQMS has association with many engineering & management Institutes** like Shri Ramedobaba College of Engineering & Management Nagpur, YCCE Nagpur, Rasoni Engineering College, BNCOE Pusad etc. and have signed MOU with them. This has resulted in availability of expert resources, facilities like library, centres for the training and consultancy projects. Many of the faculty members of the institutes are associated with us in the training & consultancy projects.

**SQMS gives emphasis on learning & development.** It regularly conducts in house trainings for its members on new areas and provides opportunity to them through web as well as classroom learning. This keeps the knowledge level of its members updated.

SQMS also give importance to research & development. **Under the guidance of**

**Dr. Ramesh Lakhe, Director, SQMS, 11 scholars have completed their PhD research on the themes such as Lean Manufacturing, TPM, TQM, Six Sigma, ISO etc. and many more are perusing.** Also there has been significant contribution to the literature through the publication of papers/articles in Journals/Conferences.

**SQMS is committed for social development & is conducting “5 S “training for students of engineering and motivating them in its implementation so as to improve housekeeping and also**

contribute towards inculcating culture of Swaccha Bharat amongst the students. SQMS has also helped conduction of Pranayama and meditation programmes for organizations such as Art of Living. AS its CSR activity, SQMS has provided consultancy for development of systems and obtaining ISO9001 certification to organizations such as Central Prison, Nagpur.

**SQMS has helped many organisations both from manufacturing and service sectors to analyse and improve their performance through well established systems.** It has team members possessing a wide spectrum of professional qualifications, experience and expertise which could effectively and efficiently address improvement issues which are of importance to business / organization. It has provided **consultancy to more than 100 organisations both from manufacturing and service sector** (Organizations cover small, medium, large scale units from various sectors such as Power, Hospitals and Health care, Software, Logistics, Laboratory, Furniture, etc.) for process, productivity & profit improvement. **The details of SQMS can be obtained on [www.sqmsindia.com](http://www.sqmsindia.com)**

### **Consultancy Services Offered**

- ✓ ISO 9001 : 2015 QMS, ISO 14001:2015 EMS, OHSAS 18001/ISO 45001, ISO 17025 , ISO 50001 ENMS, IATF 16949, ISO 27001 ISMS
  - Training and consultancy for certification
  - Maintenance of the system through regular audits
  - Documentation of the system
  - Internal audit
  - Pre-certification audit
- ✓ TQM Training and Implementation consultancy
- ✓ Design of Quality Cost Collection System and Analysis
- ✓ Six Sigma Black Belt Training & Consultancy
- ✓ TPM training and Implementation Consultancy
- ✓ Lean manufacturing tools and techniques (5S, JIT, VSM etc.) Implementation Consultancy
- ✓ Quality Award ( CII Exim, Rajiv Gandhi National Quality Award, Bajaj Quality Award) Preparation
- ✓ Consultancy for Process mapping & improvement
- ✓ Good Manufacturing Practices (GMP)

### **Training Programmes Offered**

Training programmes will be designed as per the requirements of the organization on various diversified topics pertaining to process improvement which includes the following:

- ✓ ISO 9001:2015 QMS,ISO14001:2015 EMS ,OHSAS 18001, ISO17025/15189 NABL ,ISO 27001 ISMS, ISO50001 ENMS,ISO/TS 16949: Awareness, Documentation, Internal Audit & Lead Auditor Training
- ✓ Design of Experiments
- ✓ Quality Costs
- ✓ Total Quality Management
- ✓ Six Sigma
- ✓ Lean
- ✓ ISO/TS Tools like APQP, PPAP, MSA, Control plan,
- ✓ Inventory control
- ✓ Good Manufacturing Practices
- ✓ Statistical Process Control
- ✓ Total Productive Maintenance
- ✓ 5 S, Kaizen, Pokayoke
- ✓ Value Engineering
- ✓ Lean Manufacturing tools and techniques

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