



Institute of  
Quality & Reliability

# Institute of Quality and Reliability (Established 2005)

*Our Mission is to help organizations improve their processes significantly to achieve better customer satisfaction and breakthrough results!*

*We are proud of our association with our customers*



**Institute of Quality and Reliability** (IQR) was established in Nov. 2005, with primary objective to help Industries for improving their business performance. IQR also supports individuals aspiring to improve their knowledge and skills in Quality and Reliability.

After 28 years of rich industrial experience in the Industry, at Cummins India Ltd. (CIL), **Hemant Urdhwareshe** decided to establish IQR. So far we have trained about 1500 Black/Green Belts, 400 reliability engineers and about 3600 individuals in the field of Quality and Reliability.

We provide Training and Consultancy services of the highest class in -

- Six Sigma approach
- Quality Engineering
- Reliability Engineering
- ASQ Certifications

### **Our Customers:**

We have conducted many programs including Six Sigma Black Belt, Green Belt, Certified Reliability Engineer, Design of Experiments and Design for Six Sigma (DFSS), workshops for:

- American Society for Quality (India)
- Ashok Leyland
- Fleetguard India,
- Mahindra and Mahindra
- TACO,
- Alfa Laval,
- Menon Pistons,
- DGP Hinoday,
- Satyam Computers
- Eaton India
- Tata Motors,
- Thermax,
- Tata Johnson Controls,
- Behr India,
- Mirc Electronics
- Anchor Health and Beauty Care
- Semco Electronics
- Tetra Pak
- ARAI
- Sigma Electric Manufacturing Corporation (Semco)
- Suzlon Energy
- Madura Fashion and Lifestyle
- Sandvik Asia
- Dr.Reddy's Laboratories
- Bosch India
- Greaves Cotton

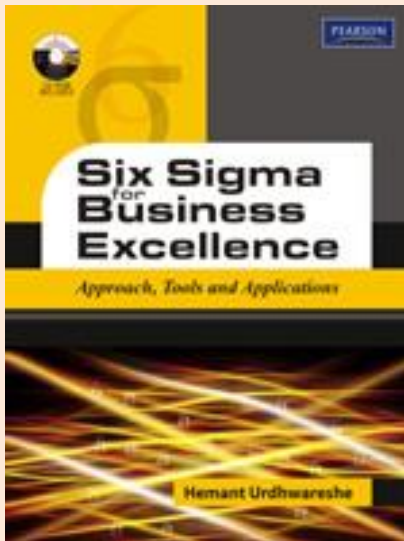
***IQR has set up a learning center at Pune. The facility is equipped with laptops with statistical analysis softwares such as Minitab and SigmaXL. IQR has also library facility for the participants taking Six Sigma Black Belt workshops.***

### **Our Training Workshops:**

	<b>Workshop</b>	<b>Brief information about workshop</b>	<b>Duration</b>
1	Six Sigma Green Belt	This 8-day open workshop is conducted with ASQ India. It is designed for engineers and managers who desire to bring in process improvements and/or wish to support Six Sigma black belts. The course is designed based on the ASQ CSSGB Body of Knowledge.	8 days
2	Six Sigma Black Belt	This 15-day open workshop is conducted with ASQ India. It is designed for managers and professionals who wish to apply Six Sigma tools for breakthrough in processes by taking up a Six Sigma Project. The workshop is based on Body of Knowledge of Six Sigma Black Belt of American Society for Quality (ASQ) and especially designed for those aspiring to get certified.	15 days
3	Design for Six Sigma Green Belt	This course prepares participants to lead DFSS projects using Define-Measure-Analyze-Design-Verify/Validate (DMADV) Roadmap. Participants can apply DFSS tools using Minitab Software for designing and developing robust products.	6 days
4	Design of experiments	Participants learn basic concepts and are able to apply DOE for process/product improvement and optimization.	2 days
5	FMEA	This workshop is designed for Design, Process and Quality Practitioners to understand and apply FMEA using AIAG Guidelines. Objective of FMEA is to identify potential and known failure modes, evaluate the risk associate with each failure mode and take action to reduce the risk.	1 day
6	Quality Function Deployment	QFD is a technique of converting voice of customer in to product features and specifications. This workshop is ideal for those involved in designing and developing new products.	1 day
7	Statistical Process Control	This course aims at learning basic concepts in Variation, SPC and process capability with hands on exercises in control charting and process capability calculation.	1 day
8	Sampling Plans	Statistical Sampling Plans have been used by quality professionals worldwide for effective control and monitoring of purchased parts. This course aims at learning basic concepts in understanding and administering sampling plans with hands on exercises in selection and interpretation of sampling plans.	1 day
10	Measurement Systems Analysis	In this workshop, participants learn basic concepts in MSA and are able to perform MSA for Variable and Attribute Measurement Systems.	1 day
11	Structured Problem Solving	Quality problems and field failures of products is one of the major concerns for senior management of most organizations. Structured problem solving workshop is designed to equip participants with a structured approach and investigation and problem solving tools. Primary objective of the workshop is learning to solve recurring field problems using relatively simple graphical and some of the basic quality tools. The course is usually conducted with Minitab Software (or equivalent).	2 days
12	Reliability engineering Basics	Reliability Basics workshop is designed to provide understanding of basic concepts in reliability engineering. Primary objective of reliability engineering to measure, analyze and improve reliability.	2 days
13	Certified Reliability Engineer	Certified Reliability Engineer (CRE) workshop is designed to provide in-depth understanding of Reliability Engineering based on body of knowledge published by American Society for Quality (ASQ). The workshop is ideal for engineers and managers who want to learn basic principles, methods, tools and techniques of reliability engineering and who aspire to get certified by ASQ as Reliability Engineer.	5 days Or 10 days (customized for ASQ)

## ***Our Consultants:***

**Mr. Hemant Urdhwarsh**e, is the Principal Consultant and Director Institute of Quality and Reliability (IQR). Hemant is a mechanical engineer and has total **40 years of experience in Manufacturing, Quality and Engineering at Cummins India Limited (CIL) and as a consultant at IQR**. As Head of Quality, Reliability and subsequently Engineering functions at CIL, Hemant was actively involved in driving Six Sigma and has led and sponsored many Six Sigma projects. He has applied various Six Sigma tools in improving processes and solving complex manufacturing and field problems. He has conducted many in-house training programmes on Leadership, Quality Engineering and management at CIL and on behalf of Indian Institution of Production Engineers (IIPE), Pune Section. He has also published many articles on Six Sigma and quality engineering.



He has conducted Black/Green Belt Programmes for companies including Ashok Leyland, Tata Motors, Fleetguard Filters, TACO, Alfa Laval, Menon Pistons and DGP Hinoday. He has also conducted many Six Sigma Black and Green Belt public workshops. He is a panelist for the Lean Six Sigma Awards organized by Symbiosis Center for Management and Human Resource Development (SCMHRD) and 'Sakal'. Hemant is a visiting faculty at Symbiosis Institute of Business (SIBM) Management for Six Sigma and

Business Statistics. He has authored a book 'Six Sigma for Business Excellence' which was published by Pearson Education in September 2010. He has also coauthored the book 'Total Quality Management' which has been published in October 2010 with his wife Rashmi. Hemant has also delivered guest lectures at reputed institutions like IIT Bombay.

He is:

- **Fellow of American Society for Quality (ASQ) and recipient of Silver Standard 2003 award from Qimpro Foundation for outstanding Quality Manager in India**
- **He is the first Six Sigma Master Black Belt in India certified by American Society for Quality (ASQ) as on 5 December 2010**
- The first ASQ Certified Quality Manager in India (1998)
- ASQ Certified Quality Engineer (1996) and
- ASQ Certified Reliability Engineer (2005)
- The first person in India with five or more certifications from ASQ
- Senior Member of ASQ, Fellow of IIPE and member of National Center for Quality Management. (NCQM).
- Qualified Lead Assessor

**Dr. Vikas Garud** is a mechanical engineer from VJTI, Mumbai University. He completed post graduation– **M. E., with specialization in Machine Design**. His project in Robotics area was instrumental in development of full-fledged robotics and automation laboratory in VJTI. He was first in the batch, in Mumbai University. Combining professional experience and research work carried out for the Aeronautical R&D Board, Defense Ministry, Govt. of India, he successfully completed **Ph. D. in the area of Design Quality Assurance** from Mumbai University. Dr. Vikas Garud started his career in Quality Management in MIRC Electronics Ltd., makers of the Onida brand of home appliances. Dr.Garud has assisted many organizations in developing quality systems and preparing for Business Excellence Awards. He has conducted number of workshops on QFD, FMEA, SPC, MSA, Process Mapping, Quality Audits Problem Solving and Six Sigma. Dr.Garud has worked as **examiner/senior examiner for the IMC-Ramkrishna Bajaj National Quality Award** since its inception in 1997. Dr.Garud is a faculty for Six Sigma and DFSS programs. Dr.Garud is a **Certified Reliability Engineer** from ASQ.



**Mr.Yashwant Mahakal** is a mechanical engineer from VJTI with rich experience in Automotive and Engineering Industries including TATA Motors, Fleet guard Filters (Cummins Group), Filtrum Tools, TACO Group, Veena Industries in the areas of Lean Manufacturing Systems / Quality Assurance / Quality Management Systems/ Product Development / Supplier Development and Costing. He has four years of consulting experience in the Areas of Lean Manufacturing and Quality Management Systems. He has successfully implemented many lean manufacturing projects.



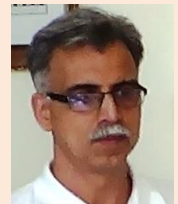
**He is certified by American Society for Quality (ASQ) as:**

- **Six Sigma Black Belt (CSSBB)**
- **Quality Engineer (CQE)**
- **Manager of Quality and Organizational Excellence (CMQ.OE) and**
- **Reliability Engineer.**

Yashwant is also certified as **Lead Assessor for**

- **Quality Management Systems ( ISO9001:2008),**
- **Environmental Management Systems ISO14001:2008 and**
- **OHSAS18001:2007.**

**Mr. M. M. Tamboli** has experience of over 25 years comprising of 20 plus years in Industrial Engineering interspersed with around 5 years in Marketing. Having strong Consultancy exposure, his multifaceted assignments included Methods Improvement (O & M), Productivity Improvement, Training, Project Appraisal, Layout, Production Norm Fixation, Job Evaluation and Manpower Assessment. The assignments spanned cross section of industries including Manufacturing; Process, Assembly, Fabrication and Service industry covering Steel, Healthcare, Packaging, Ship-building, Gems & Jewellery, Tyre and Garments. A Textile Technologist with post qualification in Industrial Engineering & a Certified Six Sigma Black Belt (ASQ).



**Mr.Prafulla Mhaskar** is an electrical engineer from Pune University with 30 years of industrial, consulting and training experience. He is certified as:

- **Six Sigma Black Belt by ASQ**
- **Lead Auditor for ISO 9001:2000 from BSI**
- **Internal quality Auditor for ISO/TS 16949:2002 from VEXIL BPS**



- Certified Tool & Die Designer from SJTI.
- Advanced IEMA approved EMS (ISO 14001) Auditor from TQMI
- ISO/TS 16949-2009 Lead Auditor (First party & Second party)
- Lead Auditor For OH &SAS 18001-2007 from TUV SUD
- Certified Reliability Engineer from IoQR .

He has conducted many training programs in the above areas with total training duration of about 1500 hours.

**Contact us:**

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