



# Build Leadership Skills with Lean Six Sigma at IIT Kharagpur

Black Belt & Green Belt Training | Project Support | Certification

Learn the art and science of problem solving, process improvement, project leadership and change management all essential and critical skills for leadership in any organization. Build an appreciation of how customer focus and process thinking can deliver great business results. An engagement that extends beyond training to project support and deployment, and to systematic capability building through certification.

Faculty from IIT Kharagpur (Industrial & Systems Engineering Department) and American Society for Quality South Asia, will jointly conduct this program, bringing together deep academic knowledge and extensive practical experience.



# Lean Six Sigma

Green Belt Training

9th - 17th September ,2020

Black Belt Training

9th - 25th September ,2020

NOTE: Last Date of Registration: Fifteen days prior to the commencement of the programme

By IIT Kharagpur (Industrial & Systems Engineering Department) and ASQ India

## What the Course will Deliver

The Six Sigma methodology is a systematic application that is focused on achieving significant financial results and increasing customer satisfaction. When properly deployed on carefully selected business projects, this methodology can lead to a significant reduction and in many cases, elimination of defects, process waste, and out-of-control processes, which translate into dramatic business gains.

This Black Belt course provides a comprehensive and disciplined model for improvement. Every participant will learn how to meet his or her company's business objectives through the recognized DMAIC process. Attendees will learn how to direct Lean Six Sigma projects and obtain the maximum improvements from the learned techniques and skills. This course is conducted in one comprehensive continuous course on campus.

Learned skills are practiced and applied through individual and team exercises, as well as to the individual projects. Participants will be able to apply the concepts learned in the class to a business improvement project assigned to them by their management sponsor.

### Learning Objectives:

- Achieve significant improvements in critical business processes.
- Apply statistical and problem solving tools to an improvement project.
- Reduce process variation.
- Eliminate waste and defects by applying lean and Six Sigma.
- Collect, analyze, and quantify data that enable process improvements.
- Learn how to execute the Six Sigma methodology.
- Establish and define process capability.
- Identify and eliminate dominant process variation sources.
- Characterize and optimize processes by computing and applying statistical techniques.
- Design, simulate, and execute designed experiments that depict validated improvement.
- Learn how to plan and implement process control to hold project gains.

### Who Should Attend

This course is designed for individuals from diverse organizational functions - operations, quality, logistics, finance, production, engineering, and other staff functions seeking to bring significant business results to their organizations.

Participants are traditionally well versed in technical aspects of their jobs, are team leaders or managers, and high potential individuals.

# Get Business Results through this unique modular offering

IIT Kharagpur (Industrial & Systems Engineering Department) and ASQ South Asia have developed a unique offering to help individuals or organizations build capability in lean and six sigma, that covers instruction, learning, application and certification. This is an end-to-end arrangement to support the learning and deployment of these powerful business improvement techniques. The connect with the faculty starts with the classroom, but extends to project support and certification. Furthermore, these additional benefits are offered as a modular package, based on the specific need of individuals and organizations.

## Classroom Instruction - Course Description

Encompassing the Six Sigma DMAIC methodology with integrated lean content, you will learn how to use both systems together for even better bottom-line results.

Lean Six Sigma training will bring both Green and Black belt participants together for 8 days ensuring consistent Green Belt level knowledge in the principles and practices of Lean and Six Sigma. Black Belt participants will continue for 7 more days for a deeper dive into the Lean and Six Sigma methodologies that bring the participant to the level of Black Belt. The Lean Six Sigma methodology is a systematic application that can be applied in production-based, service-based, transactional, and healthcare environments and is focused on achieving significant business results and increased customer satisfaction

The instruction is a blend of lecture, application, and individual and team-based exercises. The course will be conducted on the IIT Kharagpur campus, and will be residential.

## Project Support

Participants can opt for project support through remote coaching from the faculty. This will help provide topical support just when it is needed. This will help ensure that projects progress on time, and reach the targeted goals.

A package of 5 sessions of upto 2 hours each is offered with this course. These will cover the Define, Measure, Analyse, Improve and Control phases adequately.

## Certification

ASQ provides world recognized certifications in quality including in Six Sigma. ASQ certification is a formal recognition that an individual has demonstrated a proficiency within, and comprehension of, a specific body of knowledge. Nearly 150,000 certifications have been issued to dedicated professionals worldwide by ASQ.

Organisations and individuals have used ASQ certifications to build capability and knowledge to acknowledged world standards. The Six Sigma Black Belt and Green Belt are the most sought after ASQ certifications in India.

ASQ certification examinations are held in 8 cities across India (Delhi, Ahmedabad, Mumbai, Pune, Chennai, Hyderabad, Bengaluru, Kolkata) along with other centres across the world. The dates for conduct of these examinations and the application details are provided on the ASQ India website. Participants in the above program may also opt for the certification examination, and have the option to schedule themselves for one of our examination slots of their choice.

### The Lean Six Sigma program is modular. You can choose the elements you want:

- Training to Black Belt level, or **15 days**
- Training to Green Belt level **8 days**
- Project support (remote) **5 sessions x 2 hours each**
- Certification to Black Belt, or **Global examination**
- Certification to Green Belt **Global examination**

## About IIT Kharagpur



The Indian Institute of Technology Kharagpur was set up as the first of the IITs, in 1950. Along with the other IITs, it was marked as an institution of national importance, and has made a critical contribution to the development of engineering and technical skills in our country. IIT Kharagpur now counts about 18 academic departments and five centres of excellence. The vast tree-laden campus, spreading over 2100 acres, provides a collegiate atmosphere that enhances learning and helps expose visitors to multiple disciplines.

The Industrial & Systems Engineering Department, with a 40 year legacy, has always been at the forefront in developing analytical solutions to real life industry problems in the domains of supply chain, operations, quality and safety. The department continuously monitors the changing needs of the industry and works to provide sustainable solutions.



### Department of Industrial & Systems Engineering

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## About ASQ

ASQ is the world's leading community of people passionate about quality. As a professional association, ASQ brings together individuals and companies in all fields, organizations, and industries who strive for continual improvement of the products and services the world relies upon. ASQ's more than 75,000 members are building the future of quality, advancing the best insights, and investing in the ideas, tools, techniques, and systems that will help the world meet tomorrow's critical challenges.

**ASQ** was established in 1946 and is celebrating its 70th year in service. Through these years, ASQ has been a critical player in the global movement for quality improvement.

**ASQ** has been closely involved in the development of international standards including some of the most widely known, such as ISO 9001, ISO 26000, and ISO 14001, as well as other standards and technical reports that apply quality management principles, tools and technology

**ASQ** has a presence in over 140 countries around the world. ASQ operates in South Asia through its offices in New Delhi.



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# Leadership Skills Development Program LEAN SIX SIGMA at IIT Kharagpur



IIT Kharagpur (Industrial & Systems Engineering Department) and ASQ South Asia have developed a unique offering to help individuals or organizations build capability in Lean and Six Sigma, which covers instruction, learning, application and certification.

## INDIVIDUAL/ORGANIZATION INFORMATION

Individual Name/Company Name: \_\_\_\_\_

Home/ Office Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Pin Code: \_\_\_\_\_

Contact No: \_\_\_\_\_

E-mail id: \_\_\_\_\_

Click this box, if the application is by an individual, not sponsored by an organization

## REGISTRATION FEES PAYMENT

**Black Belt Training:** INR 64,900 (55,000 + 18% GST)  
Total No. of Participants: .....

**Green Belt Training:** INR 38,940 (33,000 + 18% GST)  
Total No. of Participants: .....

**Project Support** (remote, 5 sessions \*2 hours each)  
INR 47,200 (33,000 + 18% GST)  
Total No. of Participants: .....

**TOTAL:** INR.....

## INDIVIDUAL/PARTICIPANT INFORMATION

S.No.	Name of Participant	Designation	Total Experience	Educational Degree	Need Accommodation?
1.					
2.					
3.					
4.					

### HOW TO APPLY

Use the link: <https://erp.iitkgp.ac.in/CEP/courses.htm> to apply and make payment ONLINE



### IMPORTANT INSTRUCTION

**Last Date of Registration: Fifteen days prior to the commencement of the programme**

**Note:** It is advisable that candidates should book their air-tickets once they receive the final confirmation about commencement of the programme from IIT Kharagpur.

**ACCOMMODATION:** Arrangements for single accommodation will be made at IIT KGP Technology Guest House for those who need it. Approximate expenses for boarding & lodging is Rs.2000 per day, to be directly paid to Guest House.

**Contact Person at IIT Kharagpur: Dr. Jitesh Thakkar**  
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