



**INDIAN STATISTICAL INSTITUTE
SQC&OR UNIT, PUNE
www.sqcpune.org
SIX SIGMA BLACK-BELT CERTIFICATION PROGRAM
FOR 12 DAYS OF CLASSROOM SESSION**

DURING 4-5, 11-12, 18-19, 25-26 Jan-20 & 1-2, 8-9 Feb-20



It is a unique institution, devoted to the research, teaching & application of not only statistics and allied sciences, but also the natural sciences, social sciences and their interface with the statistics. Founded by Prof. P. C. Mahalanobis, a Physicist turned Statistician; the Institute has been accorded the status of an INSTITUTE OF NATIONAL IMPORTANCE, by an Act of Parliament, 1959.

Six Sigma Black-belts is typically a 12-day class-room program spread over 6 weeks. The participants will complete one Six Sigma project after the training and will acquire transferable problem solving skills and competence to solve and guide many problems in the forthcoming years for the Organization. Assistance will be provided to the participants during their first Six Sigma project. Six Sigma is a fact-based data driven structured methodology that is used to create breakthrough improvements in business processes. It is used to solve organizational problems where the solution is not known. The program augments the participants existing domain knowledge and expertise with statistical thinking and application. This will help them to channelize their efforts and knowledge in the right direction and achieve groundbreaking results in their field.

Who can benefit?

Top Executive, Middle Management, Engineers, Entrepreneurs and Transactional process leaders of any discipline from any type of industry. Six Sigma can be applied effectively in any kind of product or service based industry

Certification Requirements:

Six Sigma Black-belt Certificate will be issued after successful qualification with $\geq 70\%$ marks in the test conducted on the last day and completing one Six Sigma project.

Till the candidate has attained all the above criteria for certification, he/ she will be awarded the certificate of participation of Six Sigma Black-belt.

Course Content Phase

Recognize & Define

Content

Deployment of Six sigma in organization, Organization hierarchy for Six Sigma, Project Hopper, Project Charter, Voice of Customer, Critical to Quality, Tree Diagram, Pareto, SIPOC

Measure

Type of Data, Measurement System Analysis – Variable & Attribute, R&R Study, Sampling, Base level Assessment, Normality tests, Capability analysis – Cp, Cpk, Pp, Ppk, Defect & defective, DPMO, DPO, DPU, Sigma Level

Analysis

Process Analysis, Problem Analysis, Control Charts, Test of Hypothesis, Tabular Analysis, Chi – Square test, Regression Analysis, Process FMEA, Real cause identification

Improve

TRIZ, Solution Prioritization matrix, Solution Matrix, RICI – Chart, Before After tests, Solution Implementation, Design of Experiments - Taguchi, ANOVA

Control

Control Plan, Control Charts for Online Analysis, Mistake Proofing, Kaizen Philosophy, Overall Review, Evaluation Test

Schedule

12 Days Program: **4-5, 11-12, 18-19, 25-26 Jan-20 & 1-2, 8-9 Feb-20:** 9:30 am to 5:30 pm

Location

Indian Statistical Institute, B-9, 3rd Floor,
Anandvan Co-op. Hsg. Soc.,
Survey Number 36, Kothrud,
Pune 411 038.

Course Fee

INR 50,000/- per participant. (plus, Applicable GST@18% i.e., INR 9000/-) Totaling to INR 59,000/-.

Mode of Payment:

- Drawing a Cheque/DD in favour of **“Indian Statistical Institute” payable at Pune**
- For RTGS or NEFT: **Current account number 11138205207 with State Bank of India, Erandavana Branch; IFSC No. SBIN0004618.**

Note :

1. The above fee is also inclusive of Course Material, Breakfast, Lunch and Refreshments.
2. Maximum number of participants would be 15.

Contact Details

Website: www.sqcpune.org

Email: srath02@yahoo.com

Mobile: 09371058816 (Mr. Subrata Rath)/ 09960956118 (Mr. Sharad S. Shende)

