



## INDIAN STATISTICAL INSTITUTE

SQC&OR UNIT, PUNE

[www.sqcpune.org](http://www.sqcpune.org)

### SIX SIGMA BLACK-BELT CERTIFICATION PROGRAM

FOR 10 DAYS OF CLASSROOM SESSION DURING 22-26 JAN, 2018 AND 29 JAN TO 2 FEB, 2018



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 10 day class-room program spread over 2 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

10 Days Program: **22-26 JAN, 2018 AND 29 JAN TO 2 FEB, 2018** 9:30 am to 5:00 pm

## Location

The Central Park Hotel, Near Inox Multiplex, Bund Garden Road, Pune, Maharashtra 411001  
Phone:020 4010 4000

## Course Fee

**INR 60,000/-** per participant. (Plus Applicable GST@18% i.e, INR ...) Totalling to INR INR 60,000 Plus+18% GST

## 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. For registration procedure please refer to the registration form available at <http://www.sqcpune.org> or email us for the same

## Contact Details

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