



**INDIAN STATISTICAL INSTITUTE  
SQC & OR Unit  
HYDERABAD**

announces

**Certification Program**

**for**

**SIX SIGMA GREEN BELT**

**11 – 15 September 2017**

**Venue**

**SEMINAR HALL  
INDIAN STATISTICAL INSTITUTE**

Road No.8, Habsiguda

Hyderabad – 500 007

Phone : 040 2715 3984  
040 2717 1906  
040 2717 9402

FAX : 040 2717 3602

**e-mail : [ssgbisihyd@gmail.com](mailto:ssgbisihyd@gmail.com)**

**Website : [www.isihyd.ac.in](http://www.isihyd.ac.in)**

## SIX SIGMA

Six Sigma strategy is a proven methodology for reducing cost and improving market share. A disciplined, data-driven analytical approach for reducing process variation.

Six Sigma is a well structured approach for achieving process excellence. The strategy is being successfully implemented across the globe in all types of industries. In this approach the processes which are critical to the Business and Customer are identified through process mapping. The philosophy is to reduce the occurrence of defects in them to 3.4 DPMO/PPM using DMAIC methodology. Green Belts play a substantial supportive role in accomplishing the Six Sigma Projects.

### TOPICS

Six Sigma Overview, Identification, Prioritization and selection of Improvement opportunities, Roles and responsibilities in Six Sigma implementation, Overview of Six Sigma Project execution DMAIC (Define-Measure-Analyze-Improve & Control)

Development of Project Team and Charter, Define and Map Processes to be improved. SIPOC or COPIS (Supplier – Input – Process – Output – Customer), Activity Flow Chart. Identification of Critical-to-Customer / Critical-to-Business Characteristics (concept of tree diagram).

Types of Data, Sample Size determination for a given confidence level and Data Collection, planning including use of Prioritization Matrix and/or FMEA.

Minitab statistical software package will be used during the training. Measurement Systems Analysis (Gauge R&R) for variables as well as attribute data. Understanding variation – Special causes vs. Common causes. Seven QC tools, Evaluation of Process Capability and assessment of Sigma level.

Identification of value added and non value added activities. Organizing for potential causes using Cause and Effect diagram and FMEA. Concept of Correlation and regression and use of same in validating causes. Concept of Tests of Hypotheses like Two sample t-test, Chi-Square test, ANOVA etc and their use in validating the causes.

Concept of Industrial Experimentation, Selection and prioritization of solutions for the validated causes. Development of plan for pilot and full scale implementation.

Process evaluation and monitoring mechanism using Control Charts for controlling processes. Institutionalization and integration of the solutions, and Closing the Project.

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### CERTIFICATION CRITERIA

- (i) 100% attendance in the sessions.
- (ii) Securing 70% marks in the TEST conducted on the last day of the course.

### VENUE & TIMINGS

Lecture sessions and Practical sessions shall be held during 11 - 15 September 2017 at the Seminar Hall, Indian Statistical Institute during 09.00 a.m. to 06.00 p.m. (Extendable).

## FACULTY

Specialists from Hyderabad and other branches of Indian Statistical Institute

## PARTICIPANTS' PROFILE

- ◆ Degree or Diploma holder in any discipline with basic knowledge of quality management.
- ◆ Experience of involvement in Quality Improvement projects is desirable.

## PARTICIPATION FEE

- ◆ Rs. 20,000/- (i.e., **Rs. 23,600/-** including GST @ 18%)

Participation Fee includes Course kit, Lunch & Refreshments.

### *Payment Options :*

- Online Transfer (Preferably NEFT) : Syndicate Bank, J S N Colony Branch, Habsiguda, Hyderabad. Name of Account holder : Indian Statistical Institute, Current A/c No : 30451010000079, IFSC Code : SYNB0003045*
- Demand Draft drawn in favour of INDIAN STATISTICAL INSTITUTE payable at Hyderabad.*

*Participants making payment through 'Online transfer' shall first verify the availability of seats, and make payment only after confirmation from us.*

Accommodation : Twin-sharing Guest house facility can be opted (subject to availability) by outstation participants (Rs 600/- per day with Breakfast & Dinner). Request can be sent after registration.

## LAST DATE

Last date for Registration : **04 September 2017** (Subject to availability of seats).  
Registration is on first-come-first-served basis.

### Program Director

Prof. S M Subhani  
Mobile : 098493 23071

### Program Facilitator

Mr. K Venkata Ramana  
Mobile : 098492 95892

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## INDIAN STATISTICAL INSTITUTE

The INDIAN STATISTICAL INSTITUTE founded by Prof. P C Mahalanobis, FRS, is an Institution of National Importance, declared by an Act of Parliament and funded by Government of India. It is an Institute of academic excellence offering educational courses at Graduate, Post graduate and Research levels. The scientific activities of the Institute are carried out through different Divisions.

### Role of SQC & OR Division

- ◆ The Pioneer and Leader in blending Statistical Theory with Practice.
- ◆ To disseminate the basic concepts and techniques of Quality Improvement through Training programs, Workshops and In-house programs.
- ◆ To render consultancy services to industries in SQC, ISO 9001, ISO 14001, OHSAS 18001, Integrated Management Systems, TS 16949, Six Sigma, Business Analytics and related areas.
- ◆ To provide solutions to the problems pertaining to Business Decision Processes with the aid of Statistical and Operations Research methods.

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e-mail: ssgbisihyd@gmail.com

Certification Program for  
**SIX SIGMA GREEN BELT**  
(11 – 15 September 2017)

**REGISTRATION FORM**

Organization :

Contact Person :

Mailing Address :

Phone : (M)

(O)

(R)

E-mail :

FAX :

Participant(s) details :

S No.	Name	Designation & Department	E-mail	Mobile
1				
2				
3				

*Note : i) Course Fee per participant is Rs.23,600/- including GST.  
ii) Typed copy of this form may be used in case of more participants.  
iii) Participants making payment through 'Online transfer' shall first verify the availability of seats, and make payment only after confirmation from us.*

Amount :

Online transaction reference No. :

Date:

DD No. :

Bank & Branch :

Signature :

Date:

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Please e-mail, post or FAX the filled in form addressed to the Program Director to our office address given above.