

## Announces

# Certification Program for Six Sigma Green Belt (On-line Course)

**10 Half-days (Afternoons: 2.00 pm – 6.00 pm) on  
01, 02, 03, 04, 08, 09, 10, 11, 15 & 16 February 2021**

## 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 or Sigma rating.

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.

Soft copy of Course Notes will be mailed to the participants.

Participants are advised to e-mail us data (excel soft copy) of their interest / related to work area / any ongoing project etc, for discussion and / or class room exercise. The data may be coded, if confidential.

Participants shall use desktop / laptop computers pre-loaded with MINITAB 17 or advanced version. One month FREE trial version may be downloaded from the site [www.minitab.com](http://www.minitab.com)  
Participants will not be permitted to join the training without loading MINITAB software.

### **CERTIFICATION CRITERIA**

Qualifying Certificate by complying with all of the following three requirements.

- i) Minimum 85% Attendance during the course.
- ii) Class room Exercises and submission of Assignments given daily during the course period.
- iii) Securing 75% Marks in the TEST conducted on 18<sup>th</sup> February 2021

### **FACULTY**

Senior 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. 14, 000/- (Rs. Fourteen Thousand only)  
(i.e., Rs. 16, 520/- including GST@18%)

#### *Payment Options:*

- i) Demand Draft drawn in favour of INDIAN STATISTICAL INSTITUTE payable at Hyderabad.
- ii) Online Transfer: Syndicate Bank, J S N Colony Branch, Habsiguda, Hyderabad.  
Name of Accountholder : Indian Statistical Institute, Current A/c No : 30451010000079,  
IFSC Code : SYNBO003045

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

### **LAST DATE**

Last date for submission of Registration form : 26<sup>th</sup> Jan 2021 (Subject to availability of seats).  
Registration is on first-come-first-served basis.

#### **Program Director**

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#### **Program Facilitator**

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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. 14,000/- + GST@18% ( i.e, 16,520/- )*

*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 after confirmation from us.*

Amount :

Online transaction reference No. :

Date:

DD No.:

Bank &Branch:

Signature :

Date