

## Six-day Six Sigma Green Belt Program

A 6-day Six Sigma Green Belt (SSGB) training program will be organized by SQC & OR Unit, Indian Statistical Institute, Kolkata, provided a minimum number of 10 eligible participants are obtained. The maximum number of participants to be accommodated is about 25.

**Duration:** 20 – 25 February, 2023

**Timings:** 9:30 a.m. to 6:30 p.m.

**Eligibility Criteria:** Normally engineering graduates are given priority. However, science graduates with Mathematics or Statistics as one of the subjects from a recognized university or college can also be considered.

**Software / Programming techniques to be used for teaching:** Excel, Minitab 17 and Python

**Venue:** Conference Room of ISI Guest House, 205, B. T. Road, Indian Statistical Institute, Kolkata 700108 (Bus Stop: Bonhooghly)

**Test:** A test will be conducted on the last day to assess the extent of learning by the candidates. The test will be a combination of MCQ-type and short-answer-type questions.

**Certificates:** Successful candidates will be given certificates by ISI with the institute logo.

**Computing Facility:** Participants are requested to join with their own lap-tops with Minitab 17, Python installed along with MS-Office.

**Course Fee:** Rs 25000 + GST @ 18% per participant. The total fee payable is Rs 29,500/- per participant. The course fee includes course material, breakfasts, lunches, and coffee/tea.

**Mode of Payment:** Online payment needs to be made to the bank account (given below). In case, the program gets cancelled, the payment made by a participant will be returned.

**Application Procedure:** Participants will be selected on first-come-first-considered basis subject to meeting the eligibility criteria and full payment of course fee by **February 3, 2023**. Applicants must e-mail a copy of the receipt generated as proof of payment to the Principal Investigator.

**Bank Details:**

<b>A/c Name.:</b>	<b>Indian Statistical Institute</b>
<b>Bank</b>	<b>: Punjab National Bank</b>
<b>A/c No.</b>	<b>: 0071050000118</b>
<b>IFSC</b>	<b>: PUNB0397700</b>
<b>A/c Type</b>	<b>: Current</b>

**Course Outline:** Fundamentals of Six Sigma, DMAIC & DMADV roadmaps, basis of improvement project selection, roles of six sigma change agents (champions, MBB, BB, GB), CTQ selection, determining bottom-line benefits of a project, process mapping, statistical thinking, types of data, six sigma metrics, brainstorming, concepts of mistake proofing (Poka Yoke), preparation of SOP, C&E diagram, FMEA, Pareto analysis, data visualization (histogram, box plot, run chart, probability plots etc.), descriptive statistics measures (central tendency, dispersion, skewness, kurtosis etc.), elementary probability distributions (Hypergeometric, Binomial, Poisson, Normal), tests of hypothesis, ANOVA, correlation & regression, control charts (I-MR,  $\bar{X}$ -R, p, c), process capability analysis ( $C_p, C_{PK}, C_{PM}, C_{PMK}$ ), gage R&R study, etc.

**Contact Person:** All communications with respect to this program should be made to **Dr. A. R. Mukhopadhyay**, *Principal Investigator*, Mobile No: 9830 855 187; 6290 174 104 E-mail: arupranjanm@gmail.com.