



INDIAN STATISTICAL INSTITUTE
SQC&OR UNIT, PUNE
www.isipune.ac.in



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.

LEAN SIX SIGMA MASTER BLACK-BELT CERTIFICATION PROGRAM
FOR 12 DAYS OF WEEK-END HYBRID SESSION

DURING: May-26: 30, 31; June-26: 6,7, 13, 14, 20, 21, 27, 28; July-26: 4, 5

Lean Six Sigma Master Black-belt is a 12 days online program spread over 2 weeks. Practicing Six Sigma Black Belts having completed 3 Six Sigma projects would be eligible to enrol for this Program. Exposure to Master Black-Belt Program would make the participants capable to deploy Six Sigma to any Organisation as effective mentor. An LSSMBB would be able to effectively train and coach at all levels including Leadership team, Sponsor, Champion, Black-Belt, Green-Belt and Yellow Belts on all the related disciplines viz. DMAIC, Lean Six Sigma, Design for Six Sigma and Business Analytic using Data Mining. Our MBB would be able to act as RAJGURU to any Organisation to enable sustainable, predictable and desirable growth in profit following the laws of the lands.

Who can enrol?

The program is only for those Certified Six Sigma Black-Belts who have completed at least three Six Sigma Black-Belt level Projects.

Content

Introduction:

Vision & Mission, HosinKanri, SWOT, Balance Scorecard, Business level dashboard, Annual Business Plan (ABP), Strategic Business Plan (SBP), Multigenerational Process (MGP) and MGAP (Multi generation annual plan), Six Sigma linked to business benefit, Six Sigma Deployment Strategies. Business Process Management Systems, DMAIC, Lean Six Sigma and DFSS, Organisation for Six Sigma, Role clarity and certification requirements, Project hopper, Project selection methodologies, Change Acceleration Process

Refreshing DMAIC

Project Hopper, Project Charter, Voice of Customer, Critical to Quality, Tree Diagram, Pareto, SIPOC, 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, Process Analysis – Basic Flow Chart, Activity & Deployment flow chart, Opportunity Flow Chart. Problem Analysis, Sporadic Problems, Chronic Problems, Unstable Process, Control Charts, Test of Hypothesis, Tabular Analysis, Chi – Square

test, Regression Analysis, Process FMEA, Real cause identification, TRIZ, Solution Prioritization matrix, RICCI – Chart, Before After tests, Solution Implementation, Design of Experiments - Taguchi, ANOVA, Control Plan, Control Charts for Online, Analysis, Mistake Proofing, Kaizen, Philosophy.

Lean Six Sigma

Define: Project charter, VSM- CS

Measure: Waste related CTQs, Spaghetti chart, Routing card

Analyse: Seven Point Waste, Basic Seven Tools

Improvement: VSM-FS, Kaizen- Takt time, Heijunka box, 5-S, SMED, ANDON, Poka Yoke, Jidokha, Super market, Suggestion system, TPM

Control: Report-out

Business Analytic using Data Mining

Data Preparation, Outlier Analysis, Data (Principal Factor Analysis & FA), Data Visualisation, Regression, Classification (Logistic regression, Decision tree, CART), Clustering concept, Affinity analysis (Market basket Analysis concept), Predictive analytic including Time series forecasting

Design for Six Sigma

Define: Project charter, MGP/MGAP, Conjoint analysis, Contextual enquiry, ECTQ Dashboard

Measure: QFD, Design scorecard

Analyse: Transfer functions, Simulation, DFX, Axiomatic design, TRIZ, Pugh Matrix, Fault tree analysis, Reliability analysis, FMEAs, Tolerance design

Design: Design components- Design configurations, P-R Map, Control plans **Verify:** ECTQ Dashboard, Control plans (filled in)

Certification Requirements:

Lean Six Sigma Master Black-belt Certificate will be issued after successful completion of Content Test and a Test of Presentation skill with $\geq 80\%$ marks in the test conducted on the last day of the session.

We also issue an LSSMBB ID card to the LSSMBB once he mentored at least five Six Sigma Black-Belt level projects and complete at least 100 hours of training session within one year from the date of issue of LSSMBB Certificate.

Schedule:

12 Day Program **May-26: 30, 31; June-26: 6,7, 13, 14, 20, 21, 27, 28; July-26: 4, 5: (10:00 am to 4:00 pm)**

Course Fee

INR 50,000/- per participant. (plus, applicable GST @18% i.e., INR 9,000) Totalling to **INR Rs.59,000/-**. Participant would have to pay by cheque favouring INDIAN STATISTICAL INSTITUTE, payable at Pune.

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.**

Contact Details:

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 query@isipune.ac.in

Mobile: **9371058816 / 9748478986 / 9960956118**

Participants must visit us on our website home page go to the `Contact us` menu and provide your query details on the `Contact me` menu for the specific program.

Online Lean Six Sigma Master Belt Training and Certification Program (Weekend Session)

DURING: May-26: 30, 31; June-26: 6,7, 13, 14, 20, 21, 27, 28; July-26: 4, 5: (10 am to 4 pm)

REGISTRATION FORM

Name of the Participant (CAPITAL LETTERS):

Communication Address (Mandatory):

E-mail (mandatory) in CAPITAL LETTERS:

Mobile (with WhatsApp):

Organization Name (Optional):

Position (Optional):

Highest academic qualification:

Course Fees:

Rs.50000/- per participant +. tax @18% = **Rs. 59000/- (To be paid on-line)**

Bank Details: For Online Payments

Bank Name: STATE BANK OF INDIA

Account Name: Indian Statistical Institute

Account Type: Current

Bank Account No: **11138205207**

Branch: ERANDWANE(04618)

Bank Address: Karve Rd, Pandurang Colony, Erandwane, Pune, Maharashtra 411004 IFSC

code: **SBIN0004618**

Amount Paid: _____

Date: _____

Bank: _____

Payment Ref. No. _____

Signature: _____

Name: _____

Date: _____

Please send the filled-in form to: head@isipune.ac.in

accounts@isipune.ac.in

Contact: S. Rath, 9371058816

Registration will be confirmed only on receipt of the filled-in form (attached) and course fees. Note: Fee once paid will be fully refunded if ISI cancels the program only.