Training Program on Statistical Techniques for QUANTITATIVE PROJECT MANAGEMENT (QPM-06)

28 – 30 November 2013

Indian Statistical Institute,
8th Mile, Mysore Road,
Bangalore - 560 059, INDIA

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**Program Objective**

This program is designed to develop the statistical skills required for metrics data analysis among Project Managers, SQA / SEPG teams. The program also enable the software professionals to develop process performance models using Regression, Monte Carlo Simulation & Bayesian Belief Networks.

**Program Benefits**

The participants will acquire the knowledge on

- To develop models using Regression, Monte Carlo Simulation & Bayesian Belief Networks and perform sensitivity (what if) analysis

- To set limits and targets (process capability baselining) which will not be too wide and at the same time statistically valid

- To estimate the chance of meeting a specified deadline or the risk involved in a decision taken

- To validate the findings (process improvement, areas of concern, etc) with scientific data analysis

**Venue and Timings:**

Program dates: **28 – 30 November 2013**

Timing: **9:30 hrs – 18:00 hrs**

Venue: **Indian Statistical Institute, Bangalore**
Faculty:

Specialists from Indian Statistical Institute

Deliverables

• Development of skill set required for metrics data analysis and extraction of information from data.

• Hands on experience on usage of built in MS Excel functions for Correlation, Regression & Analysis of Variance and their applications in software metrics data analysis.

• Free tools (MS Excel Macros) for advanced statistical analysis like
  1. Test of Hypothesis
  2. Monte Carlo Simulation and

Course Content

• Introduction to data types and fundamentals of statistics

• Risk Assessment using probability & normal distribution

• Statistical approach for process capability base lining

• Verification of findings and assumption using
  1. Test of Hypothesis &
  2. Analysis of Variance

• Process performance model building using
  1. Correlation & Regression
  2. Monte Carlo Simulation and
  3. Bayesian Belief Networks
**Participation Fee:**

INR 15,000/- per head

**NOTE:**
1. Participation Fee includes Course Manual, Lunch & Refreshments, and Course Kit.
2. Discount for self-sponsoring participants: INR 1,500/- per participant
3. For group participation (3 or more participants from the same Organization), 10% of the total amount
4. Applicable Service Tax, presently 12.36%, TO BE ADDED
5. Total fee to be paid in full, along with the application, by Demand Draft favoring INDIAN STATISTICAL INSTITUTE, payable at Bangalore.

**Seats are limited. Enrolment on First-Come-First-Served basis.**

**Submission of nomination: NOT LATER THAN 26th November 2013**

**Contact**

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**Role & Function of SQC & OR DIVISION, ISI**

- The pioneer and leader in blending statistical theory with practice and institutionalizing the continuous improvement process into a sustaining system.
- To strengthen national economy through continual search for excellence in Quality.
- To disseminate the basic concepts and techniques for Quality Improvement by organizing Training programs, Workshops and In-house programs.
- To develop highly skilled professionals capable of self actualization.
- To help industries in their efforts to cope up with the growing challenge of global competition through implementation of quality system based on ISO-9000 series, ISO-14000, TS-16949-2002 standards, Six Sigma & World Class Manufacturing.
- To continually develop and improve methodologies through applied research efforts to attain International Standards in services provided.
- To provide solutions to the problems pertaining to the entire gamut of complex Business Decision Processes with the aid of Statistics and Operations Research.