

# ADAAP Process Solutions, Bangalore

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BB/MBB Certification Program in

## Lean Six Sigma

(Theme: Sustenance of the Change)

22 – 26 May 2015 & 24 – 29 June 2015

Venue: The Citrine Hotel, Subedar Chatram Road, Bangalore



### Workshop Objectives

#### To ensure Change Agents

- Know how to initiate & manage Lean Six Sigma implementation in an organisation
- Know how to define a Lean Six Sigma Project
- Understand how to identify and realise benefits
- Is able to support Project leaders throughout the life of the Projects
- Are able to guide & carry out Lean Six Sigma Projects
- Understand their roles and relationships in the Lean Six Sigma
- Structure & act as role models to help ensure Lean Six Sigma is deployed at maximum speed
- Is able to train the Green Belts/Black Belts effectively in an organization
- Is effective in acting as a change agent in cultural transformation of the organisation



## LEAN SIX SIGMA PROGRAM

- Lean Six Sigma is a management initiative aimed at making improvements in effectiveness and efficiency of Business Processes as well as Performance Metrics.
- Effectiveness relates with the Customer Results and Efficiency relates to Optimum Utilization of Business Resources.
- Results from Lean Six Sigma initiative have not been paralleled by any other initiative as on today.
- Every organization wants to implement Lean or Six Sigma approach in anticipation of improving market penetration and organizational speed at the same time reducing cost of doing business.
- Lean Six Sigma is being perceived to take people to higher level of performance with fewer mistakes while making it a strategic option for transforming an organization.
- Lean Six Sigma is a Program to be owned and led by leadership orienting strategically towards market place and customer satisfaction.
- Lean Six Sigma is described as a methodology to improve business processes and is supposed to provide metrics that strives for near perfection.
- Lean Six Sigma embodies a disciplined, data-driven analytical approach for reducing variation in any process and thereby eliminating defects.

## Still problems manifest in Lean Six Sigma life Cycle

- Projects remain open much longer than the anticipated 3-6 months, some stuck in an early phases of DMAIC or DMADV
- Belts are unable to get cooperation (from functions and departments) in collecting data, identifying root causes, etc.
- Teams lose focus part of the way through their Projects
- Successes with Projects in one department or function are not reapplied in others
- Belts are not adequately trained in the application of necessary tools to complete the project as a result tools are either force fitted or not used at all.
- Managers see Lean and or Six Sigma as competing with each other & other improvement initiatives, and are reluctant to participate

## Benefit

This Program intends to equip individuals with the Synergy of Lean and Six Sigma methodology to make visible business impact in the organization they work for. This program will also help them to identify the Lean Six Sigma Projects that are linked with the business goals and lead or carry out the initiative/ projects in their own area. Thus there is a potential for the participants to not only benefit the organization but also grow professionally themselves.

## Session & Timings

### The Sessions shall be in two phases:

**Phase I:** 22 – 26 May 2015 (9:00 hours to 17:30 hours every day)

**Phase II:** 24 – 29 June 2014 (9:00 hours to 17:00 hours every day)

## Who can attend?

Degree holder in any discipline with at least 6 months of specialized training in quality management sciences from recognized Institutions like ISI, IAPQR etc. and/or Certified Green Belts from reputed certification bodies. Each candidate should have at least three years of experience in conducting/guiding improvement projects.

## The Program Coverage

### Introductory Session

Overview of Six Sigma Methodology, Review Strategies for effectively implementing six sigma in an organization, understanding of Deployment Strategies – Business Goals/ Dashboards/ Balance Business Score Card or Customer Goals including linkages with financial goals, Roles and Responsibilities in Six Sigma implementation, Leadership attributes, Team Dynamics and maintaining interpersonal relationships. Six Sigma Project selection-linkage to strategy, Over view of Six Sigma Project execution (DMAIC or DFSS/ DMADV) ,Project Review Guidelines and selection of Belts for the projects.

### Define Phase

Development of Project Team and Charter, Define and Map Processes to be improved, Voice of Customer & Quality Function Deployment, Conjoint analysis, Defining & Implementing Balanced Business Score Card, Project Chartering, Stakeholders requirement analysis, Gauging Potential Benefits with EVA Modelling.

### Measurement Phase

Type of Data, knowledge of Statistical distributions, Use of Prioritisation Matrix and FMEA in Data Collection Planning, Sampling Strategy, Introduction to various software packages for data display & analysis like Minitab, and JMP, understanding in usage & interpretation of output along with each topic, Measurement System Evaluation (Gauge R&R) for variables as well as for attribute measurements (Kappa value and Confidence Interval for agreement with expert), Understanding variation-special causes vs. common causes (like dot plots, box plots, histogram and control charts, Stratification methods (like Pareto, Bar Diagrams, stratified dot plot, stratified scatter plot, Box Plot etc), Normality test of a data, evaluation of Process Capability for data from a Normal distribution and concept of confidence interval, Evaluation of Process Capability for Data from Normal/Non-Normal Distribution and Concept of Short Term & Long Term Process Capability and assessment of Sigma level.

### Analysis Phase

Identification of value added and non value added activities (use of Lean concept) & Value Stream Mapping, Waste Elimination, Organizing for potential causes using cause and effect diagram & Tree Diagram , Fault Tree Analysis, Verification/validation of causes using work place investigation (GEMBA), Correlation and simple & multiple regression and use of the same in validating cause, Test of Hypothesis (2Sample T test, Paired t test, ANOVA, Tests of Variances, Non-Parametric tests, Chi-Square test) and use of the same in validating the causes, Logistic regression and use of the same in validating the causes, Design of experiment and details of full factorial, fractional factorial and screening design, Multivariate data analysis, Exploratory Data Analysis techniques, waiting line distributions, Conjoint analysis, Forecasting, Modelling

### Design/Improve Phase

Robust Optimization Taguchi Methods of Parameter Design, Mahalanobis Taguchi System, Reliability Theory, Design FMEA, Pugh Matrix, Improvement Ideas using Creativity Techniques (Traditional & non traditional), Solution Evaluation Criteria, Evaluation of solutions and selection of solutions, Change Management Process dealing with resistance to change, Process of piloting the solutions , Risk Analysis and implementation planning

### Verify/Control Phase

Concept and Examples of Poke Yoke, Visual Workplace and 5S & Planning for full scale implementation (use of Gantt Charts, Microsoft project, planning grid, involvement Matrix). Evaluation of results after implementation, Monitoring the results through statistical Process Control (like Control Charts, Pre-Control Charts etc) after implementation of the solutions & Monitoring the results as a part of established QMS and Institutionalisation and integration of the solutions, Process Audits, Process of Closing the Project, Walk through different six sigma projects of different applications

## Lead Faculty:

Prof. A K Chaudhuri: Director ADAAP Process Solutions, Ex Professor of Indian Statistical Institute



## Certification Criteria

**MBB** Qualifying certificate by securing 75% marks in the test conducted on the last day of the course. Final MBB Certificate shall be issued after successful qualification in the test and guiding 5 projects on improvement & conducting 60 hours of training in related topics or attending 3 conferences/ seminars/ workshops on related subjects in the following one Year.

**BB** Qualifying Certificate by securing 75% marks in the test conducted on the last day of the course. Final BB Certificate shall be issued after successful qualification in the test and carrying out one project successfully within 3 months from the last date of the course completion.

## Participation fee

**INR 63,800/- for participants from Non-Member organizations Indian participant, INR 58000/- for participant from Member Organizations and US Dollar 1800.00 for overseas participant including statutory & regulatory taxes, course manual, morning and evening tea/coffee, Indian lunch and the kit.**

## Important dates

**Last date of submission of nomination: 10 May, 2015**

**Last Date of notifying acceptance of nominations: 15 May 2015**

## About ADAAP Process Solutions Limited

- The ADAAP Process Solutions Private Limited is incorporated with the objective to bring entrepreneurs and professionals worldwide to the higher level of knowledge, thereby enabling them to be worthwhile in the society and ultimately contribute to the WAR AGAINST WASTE.
- It helps in enabling organizations and individuals to lead and manage effectively and efficiently in the area of continuous transformation in all sectors through its dedicated & experienced professionals with domain knowledge, technical expertise and managerial skill set.
- Like its founder, Prof. A K Chaudhuri, ADAAP is emboldened with confidence of providing right solutions in right time to improve the Profitability, Growth and Continuous transformation of the business.
- To Transfer Skills by providing training on the methodology, tools & techniques for improving the capability of the business processes in order to increase organizational speed and market penetration
- To undertake improvement projects to reduce cost of doing business by eliminating value destroyers in any process through use of including but not limited to Six Sigma Training Certification & Implementation; Lean Training Certification & Implementation
- To Provide Training, and implementation of Quality Management Systems and accelerate its effectiveness & efficiency.
- To launch initiatives for business process management & transformation using methodologies to define, measure, analyze, improve /design and control any existing business process, to develop new Process.
- All professionals associated with ADAAP have immense expertise in blending theory with practice and institutionalizing the continuous improvement process as a sustaining system.