S P Jain School of Global Management

DUBAI • MUMBAI • SINGAPORE • SYDNEY

LEAN SIX SIGMA GREEN BELT CERTIFICATION

CURRICULUM

OVERVIEW

- Overview on Quality
- Quality Terminology
- Lean, Six Sigma, and Lean Six Sigma
- The Lean and Six Sigma Language

WHY AND WHEN ONE MUST APPLY LEAN SIX SIGMA

- Basic Quality Tools
- 7 wastes (Self-study through pre-workshop material)
- 5s (Housekeeping for productivity Improvement)

LEAN AND SIX SIGMA

- Lean Principles and Tools (Self-study)
- Lean Six Sigma DMAIC Methodology
- Other tools required at various stages of DMAIC
- Case studies (Pre-workshop material)

DEFINE & MEASURE PHASE

- Process Mapping (As-Is Process)
- Data Attributes (Continuous Versus Discrete)
- Measurement System Analysis
- Process Performance (Cp, Cpk, Pp, Ppk)
- Calculating Process Sigma Level
- Defining Problem
- Minitab Software/JMP for Define & Measure Phase
- Measurement Phase Review
- Case studies (Pre-workshop material)

ANALYSE & IMPROVE PHASE

- Value Stream Mapping
- Test of Hypothesis
- Verification of Root Causes
- DoE and ANOVA as needed
- Minitab Software/JMP for Analyse & Improve Phase
- Improve Phase Review
- Case studies

CONTROL PHASE

- Assessing the Results of Process Improvement
- Statistical Process Control (SPC) Overview
- Developing a Process Control Plan
- Documenting the Process
- Minitab Software for Control Phase
- Control Phase Review
- Case studies

EXAMINATION

EVALUATION AND FEEDBACK

PEDAGOGICAL APPROACH

- Along with highly interactive theoretical teaching, the program includes case study discussions, practical sessions, question & answer sessions, and exercises

- Participants are expected to read the pre-workshop materials that will be mailed to them at least seven days in advance