

TRAINING CONTENT OF GREEN BELT PROGRAM

Week-1 | Day 1

- 1) Sponsors training -
 - Purpose:
 - a) Lean, Six Sigma awareness to the management staff
 - b) To set the platform for Continuous improvement in the organization using SPC/SQC techniques.
 - for Management Staff only
 - Duration: 2 hrs
- 2) Workshop on Unique action Portfolio [**UAP**] [5 hrs]
 - Purpose: To identify improvement projects, Leaders, Timeframe and the expected key benefits in tangible and in-tangible terms.
- 3) Validation of the UAP by the management [1hr]
- 4) Kick off Project Charters

Week-2 | Day 2

0: Lean & Six Sigma Overview, Origin and Application

(I) DEFINE

1. Lean, Six sigma and Organizational Structure
2. Voice of Customer (VOC) (CTQ Tree/ Affinity Diagram/ Kano Model)
3. Project Charter and Plan
4. SIPOC or COPIS

(II) MEASURE

1. The Need for Data/ Type of Data
2. Measures of Location, Mean, Median, Mode, Measures of Variability, Range, IQR, Standard Deviation
3. Process Mapping and different types of process maps/ VSM*

Week-2 | Day 3

4. Key issues in measuring quality/ MSA*
5. Sampling/ Calculating sample size: Continuous Data/ Discrete Data
6. Voice of the Process (Cp, Cpk, Pp, Ppk)
7. Failure Modes and Effect Analysis (FMEA) (before Improve Phase)

Company-wide Lean Six Sigma Deployment

(III) ANALYZE PHASE

1. Fish Bone Diagram Usage For data collection and identification of X factors
2. Discrete Data Analysis (Bar Chart/ Pie Chart/Pareto Chart/I-MR Chart)
3. Continuous Data Analysis (Scatter Plot, Histogram, Box Plot, I-MR Chart, Multivari chart)

Week-2 | Day 4

4. Regressions and scatter plot
5. Hypothesis testing* - 2 t, paired t, ANOVA, Chi Square test

(IV) IMPROVE

1. Piloting the Solution/ New VSM*

V) CONTROL

1. Control Phase Steps
2. Process Capability
3. Control charts (IMR, p, np, c, u)

Week-3 | Day 5

Examination

Project Presentation

Certification

Note:

- a) * The tool is advised to be used in close coordination of Black Belt
- b) The Program Includes using MINITAB Statistical software for data analysis and interpretation of results.
- c) Laptops for the participants shall be organized by the organization/participants.

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