## Feature:

Based on AIAG – SPC Manual, Second Edition, 2005. And covers the fundamental of statistical process control, estimation of defect rate based on process potential and performance, control charts and out of control condition with number of example and exercises. Application of statistical process control and its significance in preventing defect.

## Course Objective:

1) Understanding the fundamental of SPC
2) Learn to estimate defect rate based on process standard deviation
3) Calculate sigma level of process
4) Understand how to calculate control limits and implement control chart
5) Interpreting control chart trends and out of control condition

## Who Should Attend?

People from departments like design, production, quality, process engineering, supplier quality, consultants, etc.

## Course Duration:

1 Day

## Course Content:

1) Introduction to SPC
2) Type of control chart
3) Variable and attribute data
4) Concept of population and sample
5) Precision and accuracy
6) Concept of variation – common and special cause
7) When to implement SPC
8) Mean, Median, Mode and Histogram
9) Concept of standard deviation
10) Standard Deviation for population and sample
11) Z – Curve and estimation of defect rate
12) Process potential and process performance
13) Control limits and control chart - X-bar, R Chart
14) Interpretation of control chart
15) Out of control condition
16) I&MR chart and Pre control chart