



# A 3 DAY WORKSHOP ON CONTROL CHARTS

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## Introduction

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Control chart is a basic tool for controlling and continuously improving Quality of operations and processes.

Control charts rely on the statistical analysis. Thus, a thorough understanding of statistical concepts is essential for proper application of control charts.

In this program, statistical concepts and application of these concepts to control charts will be covered in a simple, easy to understand methodology. This will help participants to develop sound foundation for designing and applying appropriate control charts.

## CONTENTS:-

1. Statistical Analysis, samples & sampling, Statistical parameters.
2. Probability & probability distributions  
Binomial & Poisson distribution.  
Normal probability distribution,
3. Sampling distribution & statistical tests.  
Confidence intervals & hypothesis tests.  
't' distribution, chi square and F distribution. ANOVA
4. Design & application of control charts.  $\bar{X} - R$  charts
5. Other control charts,  $\bar{X} - MR$ , precontrol,  $\bar{X} - S$ , etc.
6. Attribute control charts.
7. Improvement techniques, Run charts, multivari chart, paired comparison, Bv/sC
8. Case studies

## PARTICIPATION:-

Managers and engineers from Inspection and Quality Control Manufacturing, process design & engineering, product design and engineering etc.