

# Design of Experiments Workshop

Whether your goal is to eliminate chronic problems in your processes or you simply want to optimize throughput, design of experiments will help you get there efficiently. In this **16-hour\*\*** workshop, participants will learn how to plan, perform, analyze, and interpret results of classical statistical experiments. The Catapult is used as a process where participants go through the actual design and performance of the specified experiment. The workshop starts with simple comparative experiments then moves into factorial and fractional factorials. Also statistical software (Minitab) is used for analysis



## Who Should Attend?

Quality professionals (engineers / technicians / managers), manufacturing engineers, process engineers, Design/R&D/Project engineers, and others who are interested in utilizing the process and analysis of DOE's

## Outline

- > Role of Design of Experiments
- > The Experimental Design Process
- > Basic Principles
- > Review of Statistical Techniques
  - > Simple Comparative Experiments
  - > Single-Factor Experiments
  - > Factorial Designs
  - > General Factorial Designs
  - > Factorial Designs at Two Levels ( $2^k$ )
  - > Fractional Factorial Designs at Two Levels ( $2^{k-p}$ )
- > Overview of Taguchi's Orthogonal Arrays

\*\* A short version of this workshop (8 hrs) emphasizing factorial and fractional factorial designs is also available\*\*

Contact us for a quote to bring this workshop on-site



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