

## Design and Analysis of Experiments

### Benefits

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 **8-hour** workshop, participants will learn how to plan, perform, analyze, and interpret results of factorial and fractional factorial designs. The Catapult is used as a process where participants go through the actual design and performance of the specified experiment.

### Outline

- DOE and the PDCA Cycle
- The DOE Process
- DOE Principles
- DOE vs. SPC
- Overview of Factorial Experiments
- Two-Factor Factorial Experiments
- Factorial Designs at Two Levels Each ( $2^k$ )
- Confounding in  $2^k$  Factorial Designs
- Blocking in  $2^k$  Factorial Designs
- Fractional Factorial Designs ( $2^{k-p}$ )
- Overview of Taguchi's Experiments

### Who should attend

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

**Please contact us to request this workshop onsite!**



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