Design and Analysis of Experiments

Benefits

Whether your goal is to eliminate chronic problems in your processes or you simply want 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 through factorial and fractional factorials. Also statistical software is used for analysis.

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

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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