

Management Overview Seminar

Design of Experiments Using the Taguchi Approach

This 1-day session will offer you an overview of the Taguchi experimental design approach for robust product and process designs. The goal is to make you familiar with the technique so that you may decide whether benefit from such skills. Attendees will receive brief seminar presentation materials.



WHERE?

- At your facility (For larger group)

DETAILS: Please visit for information and registration details.

www.Nutek-us.com/wp-sem.html - Onsite seminar

WHO SHOULD ATTEND?

- Product/Process Design Engineers
- R&D Scientists
- Project Managers
- QA Personnel and have immediate applications in product optimization or production problem solving
- Manufacturing Manager, Director or Senior Engineer wishing to lead application project teams
- Instructor in academic institution and are looking toward sharpening the application considerations
- Consultant and Trainer

Session Overview

Design of Experiment (DOE) is a powerful statistical technique for improving product/process designs and solving production problems. A standardized version of DOE, as forwarded by Dr. Genichi Taguchi, allows one to easily learn and apply it in manufacturing and production problem investigations. Since its introduction in the U.S.A. in early 1980's, the Taguchi approach of DOE has been a design optimization tool commonly used by engineers and scientific professionals by most industries.

COURSE INSTRUCTOR

This seminar is led by Ranjit K. Roy, Ph.D., P.E., PMP, President of Nutek; Inc. Dr. Roy specializes in the Taguchi approach to quality improvement.



Dr. Roy has achieved international recognition as a consultant and trainer for his down-to-earth teaching style of the Taguchi experimental design technique, project management, and several other quality engineering topics. He is also the author of two leading textbooks on Taguchi application, and Qualitek-4 software used in the seminar. He began his career as senior design engineer with Burroughs Corporation following completion of graduate studies in engineering at the University of Missouri-Rolla in 1972. He then worked for General Motors Corp. (1976-1987) assuming various engineering responsibilities with his last position as that of reliability manager. Dr. Roy is a *fellow* of the American Society of Quality.

Discussion Topics

- Overview- concepts of quality engineering
- Measuring cost of quality by Loss Function
- Review basic concepts in experimental design
- Project objective Evaluation Criteria
- Experiments designed using orthogonal arrays
- Experiments to study interaction
- Basic analysis and strategy for experimentation
- Strategy for Robust Designs
- New attitude toward uncontrollable factors
- Outer array for robust design
- Demonstration of Experiment Design and Analysis using Software (Qualitek-4)

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