



NewGrange

TRAINING & SERVICES LTD

Better People, Better Business®



Design of Experiments (DOE)

This course provides an introduction to classical experimental design and Taguchi's Robust Design methodology. The course focuses upstream on the design of products and processes.

Who should attend?

The course is suited to engineers and engineering managers. No prior knowledge of DOE is necessary and only basic mathematical skills are required.

Course Location:	On-Site at your premises
Course Duration:	2 Full Days, 9.30am - 4.30pm (dates to suit you)
No. of Delegates:	12 delegates max

Benefits to your organisation

- ✓ Helps the company to rapidly acquire knowledge of key product and process parameters
- ✓ Design products and processes which are robust to uncontrollable sources of variation
- ✓ Optimise product and process parameters for best performance and least cost.

Course Programme

- The Loss Function Concept
- On-Line and Off-Line Quality Control
- Controllable and Uncontrollable Factors
- Traditional Approaches to Experimentation
- Orthogonal Arrays:
 - *Full Factorial Experiments*
 - *Fractional Factorial Experiments*
- Taguchi's Robust Design Methodology
- Designing and Conducting and Experiment
- Signal to Noise Ratios
- Analysis of Results and Optimisation
- Prediction of Improvements
- Confirmation of Results

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