

MBB B8 Advanced Design of Experiments

Who Should Attend:

- Individuals designing experiments and analyzing and interpreting the results from those experiments
- Mentors of Black Belts and Green Belts

Key Topics:

- Choosing appropriate experimental designs for specific situations
- Supersaturated designs
- Evaluating prediction uncertainty from a fitted model
- Prediction variance profiles for experimental designs
- Guidelines for selecting a response surface design
- Efficient robust designs
- Computer-generated optimal experimental designs
- Screening designs, response surface designs, and constrained designs for mixture experiments
- Analysis of results from mixture experiments
- Determining optimal formulations

Benefits:

- Strengthen and expand skills for designing experiments
- Develop expertise in designing and interpreting results from mixture (formulation) studies
- Evaluate the potential effectiveness of an experimental design before executing that design
- Creating robust designs involving minimum numbers of runs
- Understanding the creation of and limitations of computer-generated optimal experimental designs

Prerequisites:

- Experimental design experience at Six Sigma Black Belt level or equivalent