

[SAS-JMDE14]: JMP Software: Custom Design of Experiments

Length : 2 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

This course offers a fresh perspective about designing experiments through state-of-the-art features in JMP. This course specifically focuses on the principles of designing an experiment and how to use all of them to achieve an optimal design.

Audience Profile

Directors, managers, engineers, scientists, technicians, and analysts working in discovery, research, development, and quality assurance or control, as well as Black Belts working on Six Sigma projects

At Course Completion

- Use custom design for any experiment.
- Choose appropriate criteria for optimal design.
- Effectively and efficiently test factor effects or predict responses.
- Augment existing experiments to address new questions.
- Design and analyze experiments with hard-to-change factors.
- Eliminate noise from nuisance factors.
- Find best factor settings to achieve desired response levels.

Pre-Requisites

Before attending this course, you should complete the JMP Software: A Case Study Approach to Data Exploration and JMP Software: Statistical Decisions Using ANOVA and Regression courses or have equivalent experience.

This course addresses JMP software.

Course Outline

Module 1: Introduction

Lessons

- Introduction to design of experiments.
- Introduction to custom design.
- About responses.

Module 2: Experiments with One Factor

Lessons

- Testing a categorical factor.
- Testing a continuous factor.
- Validating the model.

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- Testing a quadratic effect.

Module 3: Experiments with Two Factors**Lessons**

- Testing two categorical factors.
- Testing one continuous factor and one categorical factor.
- Testing with one blocking factor.
- Testing two continuous factors.

Module 4: Multi-Factor Case Studies**Lessons**

- Two responses to five factors.
- Three responses to seven factors.

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