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DESIGN OF EXPERIMENT USING JMP

BY ELITE INDIGO

Master the principles of Design of Experiments with JMP through hands-on activities, real-world case studies, and practical modeling techniques to optimize processes with confidence.

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Design of Experiment Using JMP

Program Overview

Design of Experiments (DOE) is a methodology for planning and conducting a series of experimental runs in which controlled changes are made to inputs in order to observe and identify causes for changes in the outputs of a system or process.

This interactive activity filled course is created with the purpose of:

- Apply systematic experimentation
- Find important factors impact process output
- Optimize a specific process output

Learning Objectives

By the end of the course, participants will be able to:

- Understand DOE concept and terms
- Able to design an experiment using JMP
- Use JMP to conduct & find modelling
- Finalize what are the critical parameters impact a process

Pre-Requisites

- Student already have some basic knowledge on JMP software

Duration

Two (2) Full-Day Workshop

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Course Schedule (Day 1)

DAY/TIME	DESCRIPTION
30 Minutes	**Opening & Introduction**
2 Hour 30 Minutes	**Module 1: Introduction to Design of Experiments (DOE)** • Experimentation and Processes • DOE Terminology • Objectives of DOE • Plan and Run an Experiment • Common Methods of Experimentation • Different Types of DOE • Comparison of Experimental Procedures
1 Hour	**Lunch**
4 Hours	**Module 2: Full factorial DOE** • Introduction to Full Factorial Design • Examples of Full Factorial Experiments • Two-level Full Factorial Experiments • Generate a Full Factorial Design • DOE Methodology • A Two-level Full Factorial Design generation in JMP • Replication in Design experiments • Replication vs. Repeated Observations • Activity on experimentation
	Summary and End of Day 1

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Course Schedule (Day 2)

DAY/TIME	DESCRIPTION
30 Minutes	**Opening & Introduction**
2 Hour 30 Minutes	**Module 3: Analyze Results of Experimentation** • DOE Methodology -Analyze, Optimize, Report • Objectives of Experimentation • Process Steps to Analyze an Experiment • Results of the Experiment • Calculating effect of main factor • Calculating an Interaction Effect • Group Exercise
1 Hour	**Lunch**
4 Hours	**Module 4: Regression Analysis** • Simple Linear Regression • Regression Coefficients and Factor Effects • Model Building and Analysis • Determine the potential significate factor • Improve and Select the best model • Validate Model and residual analysis • Determine optimum setting • Confirmation run • Group Exercise
	Summary and End of Course

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ABOUT ELITE INDIGO

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