DOE 1 (Comparative Experiments)

Course Objective

The objective of this course is to provide participants the key elements for designing good experiments, learn the statistical foundation and terminology used for designing and analyzing comparative experiments, be able to design and analyze comparative experiments using JMP software.

Targeted Group

Engineering, Quality & Reliability, Statistician, Integration, Materials.

Pre-requisites

Vital and Applied Stats 101. Good understanding in basic Statistics (role of Statistics, data type, basic terms and concepts for statistical analysis, common graphical and numerical analyses), and some exposure in area of application. The understanding/exposure allows the learners to follow the class well and be able to apply the knowledge learned on the job immediately after the class. Participants are required to install Microsoft Excel prior the class.

Delivery Mode

PowerPoint presentation, hands-on activities, and Q&A.

Training Aid

Laptop and Zoom (or equivalent) presentation mode for online session. Projector for face-to-face session.

Course Duration

2-day, 8 hours/day.

Course Schedule

1. DOE Overview
2. Statistical Concepts
3. Hypothesis Testing and One Sample Comparison
4. Two Samples Comparison
5. Paired Comparison
6. Correlation and Regression

About Elite Indigo

Elite Indigo Consulting provides corporate training to the semiconductor and manufacturing industries. With a humble beginning of one founding member with passion and desire to share his 20 years of experiences in Smart Manufacturing for global manufacturing facilities, now, we have a strong and competent team of 20 members, all aligned with company mission, vision and core values.

Our Mission

"Transform Data into Insights - Leap Forward"

Our Vision

Be a Global Trusted Advisor in the Areas of Skills Development,

Consultancy & Software Solutions specialising in

Semiconductor & Manufacturing industries.

Our Core Values

TRUST
"A culture of self, team and clients trust"

PASSION
"Do what we love and love what we do"

EXCELLENCE
"If it's worth doing, it's worth doing it well"