



Formation Minitab - Design Of Experiments (DoE) in Geneva, Zurich, Huston, San-Antonio, Dallas, Los Angeles, San Diego, New York, Washington, Chicago, San Francisco and anywhere in Switzerland, USA, Great Britain and Germany.

ID : 1028

Goal : Studying how to put in practice with Minitab statistical tools of undergraduate and graduate level for non-point analysis and parametric and non-parametric inferential hypothesis for uni or multivariate data for all areas in the services, industry, R&D and sensory analysis.

Audience : Engineers, mathematicians, physicists, chemists, biologists, financial analysts, logisticians, managers, statisticians or other profile having to do statistical analyzes as part of their

work and wishing to avoid creating formulas or macros within a spreadsheet software.

Prerequisites : Have attended the Minitab course on the fundamentals of handling basic data and statistics where the basis for hypothesis testing are already studied or have equivalent knowledge (solid theoretical knowledge in statistics). The trainee must also have the ability to mentally represent complex and abstract mechanisms.

Goals :

- Introduction
- Reminders about the taxonomy of the 490 parametric and non-parametric tests
- Generate and represent random variables
- Flat sorting of individual variables
- Treat a multiple entries table or a contingency table for an independence chi-2 test
- Running a chi-2, Kolmogorov-Smirnov, Anderson-Darling or Ryan-Joiner (eg Shapiro-Wilk) adquation test
- Fisher Exact Test
- Cramer's V
- Mantel-Haenzel-Cochran Test
- Multiple and simple linear regression model (Gaussian model)
- Variance Inflation Factor (VIF)
- Partial least squares regression (PLS univariate)
- Linear, quadratic and cubic regression adjustment
- Stepwise regression with ascending / descending elimination
- Linear regression with best subsets
- Calculation of the correlation and covariance
- Determine the partial correlations
- Nonlinear regressions with interactions or cubic/quadratic polynomial regressions
- Binary logistic regression
- Orthogonal Regression (Deming regression)
- ...

Pedagogical method : This training is based primarily on exercises set by the trainer and from the book which serves as support for the training. The trainer can if he wishes, but without obligation, work on trainees data. Training has no mathematical proofs and without explanation of the results of tests and output statistics concepts are assumed to be known. Do not hesitate to contact us to tailor the program to your technical needs and understanding.

Suggested duration for presentiel training (days) : 4

Suggested duration for on-line training (days) : 4.8

Daily price in face-to-face : 625 CHF

Daily price in remote : 300 CHF

Daily price in remote for students : [contact](#) us (only if student card!)

Daily price in remote (with recording) : 3125 CHF

Prices are per day per trainee without course material, without certificate, without evaluation, without exam, without training room or computer (these are each optional and must be requested in addition in the contact form for the establishment of the quote).

Book

- **Title :** *Minitab*

- **Author(s)** : *Vincent Isoz*
- **Pages** : 1125
- **ISBN** :

Tags : minitab training, minitab course, six sigma minitab training, sixsigma minitab course, z-test, t-test, p-test, anova, ancova, parametric tests, nonparametric tests, wilcoxon's test, mann-withney test, power of a test, test sample size, linear regression, nonlinear regression, polynomial regression, logistic regression, deming ressession, fisher's test, mantel-haenzel-cochran test, cramer's v, variance inflation factor (vif), pls regression, chi-square adequation test, kolmogorov-smirnov regression test, anderson-darling regression test, rayon-joiner regression test, shapiro-wilk regression test, chi-square independance test.

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