

Workshop on:

Analysing non-normal data and statistical modelling with Minitab.
Practical example at Nespresso.

Organized by:

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Abstract:

Executive summary: After presenting a field application through the statistical approach implementation in the world of coffee machines to support best in-cup quality and 0 defect objective; a Minitab Statistician will explain the methods used by Nespresso and go further detailing non parametric tests and statistical modelling methods, using Minitab Statistical Software

Presenters: Bruno Scibilia, Ph.D. in Design of Experiments (DOE), Minitab Technical and Training Specialist, Marc Moal, Machines Quality Manager, and Julien Viquerat, Laboratory Team Leader, Nespresso

Detailed description:

Coffee machines manufacturing has been growing significantly in past years at Nespresso reaching a volume of XXX appliances manufactured in 2015. To support Nestlé ambition of 0 defect on coffee machines (industry standard is between 3 and 7% return rate) and in cup quality consistency, intensive use of statistics has become a must. We propose to show the implementation of statistics through 2 concrete successful examples:

- “Machine-Capsule” System qualification and validation to ensure in cup consistency: coffee extraction and sensory aspects
- Implementation of statistics within machine manufacturers network to reduce customer complaints

Minitab Technical and Training Specialist will then detail the methods used for non-normal data analysis and statistical modelling, using Minitab Statistical Software.

References