SMD

Applied Statistics In Medical Devices Manufacturing

Course description

The purpose of this course is to provide students with the tools required for analyzing data and using this analysis in solving practical problems. You will learn the basics related to Inferential Statistics. Moreover, these tools will be focused on solving common problems faced by engineers in manufacturing and designing medical devices. This course is given with the support of software traditionally used in this industry and based on application cases.

At the end of the course you will able to:

- Make decisions through the interpretation of data from applied examples.
- Determine the appropriate methods for data collection.
- Understand the distribution of normal data and the main problems of rounding, outliers, mixed populations, and truncated data.
- Evaluate the normality of the data through the application of examples.
- Learn about the process for performing capability analysis.
- Know the appropriate statistical values for a process to be capable of meeting specifications.
- Know the main tools that can be used in software to determine the capacity of a process.
- Interpret through the application of examples, when a process is capable or not of complying with the specifications.
- Perform transformations on non-normal data.
- Apply the knowledge acquired to solve multiple real case situations throughout the class.

Main topics

1 Statistical Concepts.
2 Sampling Plans.
3 Normality.
4 Capability Analysis.

Contact

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Course features

Instructor Led

Duration: 12 hours

Tools and templates

Simulated learning

Course certification