



Control Charts for Quality Technicians

Course description

This course provides Quality Technicians with the necessary skills to control and improve the quality of products and processes in the context of the medical device industry.. The course addresses both quantitative and qualitative data and teaches students how to develop and interpret the main types of graphs implemented in the industry. In addition, students are introduced to inferential statistics and the principles of statistical sampling, emphasizing the importance of randomization.

At the end of the course you will able to:

- Understand and work with quantitative and qualitative data.
- Develop and interpret graphs, including Line Plots, Bar Charts, Pie Charts, Histograms, Scatter Plots, Individual Value Plots and Box Plots.
- Apply concepts of inferential statistics to make informed decisions about the quality of medical devices.
- Understand the principles of statistical sampling and the importance of randomization in the quality control process.
- Identify and differentiate assignable and non-assignable causes in medical device production processes.
- Create and use Variable Charts and Attribute Charts to monitor product quality.
- Interpret control charts effectively to detect trends and deviations that could indicate quality problems.
- Perform pattern analysis on data to identify patterns that require corrective and preventive actions.

Main topics

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| 1 Data Type <ul style="list-style-type: none">• Quantitative• Qualitative | • Individual Value Plots <ul style="list-style-type: none">• Box Plot | • Assigning Causes <ul style="list-style-type: none">• Creating Charts• Chart Interpretation |
| 2 Graphing <ul style="list-style-type: none">• Line Plot• Bar Charts• Pie Charts• Histograms• Scatter Plot | 3 Introduction to Inferential Statistics | 6 Pattern Analysis |
| | 4 Principles of Statistical Sampling <ul style="list-style-type: none">• Randomization | |
| | 5 Introduction to Control Charts <ul style="list-style-type: none">• General Theory and Main Concepts | |

Contact

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Course features

- Instructor Led
- Duration: 8 hours
- Tools and templates
- Simulated learning
- Course certification