



QMS
Associates

Statistical Tools with Minitab®

Code: STA Type: Workshop Time: 16 Hours

Objective: Effectively apply at work statistical tools for the design, operation, control and improvement of products and processes.

Audience: Engineers and technicians related to the design, operation, control and improvement of processes of service provision and manufacturing.

Contents:

<ul style="list-style-type: none"> • Difference of means test • Difference of variance test • Analysis of Variance (ANOVA) 	<p>Inferential statistical tools that will allow the participant to know in greater depth the behavior of products and processes to design, operate, control and improve them.</p> <p>They are excellent tools for troubleshooting and root cause analysis.</p>
<ul style="list-style-type: none"> • Probability distributions • Goodness of fit tests 	<p>Necessary to determine which distribution the characteristics of the products and processes adhere to.</p>
<ul style="list-style-type: none"> • Control charts 	<p>Fundamental tool of Statistical Process Control. The participant will learn to apply the chart that best suits their processes and control objectives. You will also learn the basic rules of SPC.</p>
<ul style="list-style-type: none"> • Acceptance sampling 	<p>It is the most used tool in the Quality Control of materials and products. The participant will learn to use the type of sampling that is most appropriate for their products and materials, including sampling by variables.</p>
<ul style="list-style-type: none"> • Gauge Repeatability and Reproducibility Analysis (R&R) 	<p>The participant will learn to determine if a measurement system (Instrument, operator, part) is suitable for the intended use.</p>

Methodology: The workshop is a combination of keynote presentations and individual and group exercises. Participants will learn the relevant terms, definitions, and formulas for each topic. During the exercises they will use the concepts applied to real work cases using Minitab®.

Mode: Face-to-face or virtual.

Equipment and materials: Participants shall use their own laptop with Minitab® installed.



For more details, contact us:

Tel. (506) 7075-2572
info@qmscr.com
www.qmscr.com

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