

# C

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Calibration interval Created Jun 12, 2019 (11:35) by Anurekha VIJAYARAGHAVAN

### Definition

[Link](#) [Link](#)

IATF 16949: A specified amount of time or set of conditions between calibrations during which the calibration parameters of a measuring device are considered valid.

### Label(s)

- [English](#)

Capability Created Jun 12, 2019 (11:35) by Anurekha VIJAYARAGHAVAN

### Definition

[Link](#) [Link](#)

IATF 16949: An estimate of the combined variation of measurement errors (random or systematic) based on a short-term assessment of the measurement system.

MSA: Capability indices are used to predict the performance of a process by comparing the width of process variation to the width of the specified tolerance.

### Label(s)

- [English](#)

Cause and Effect Diagram Created Jun 12, 2019 (11:35) by Anurekha VIJAYARAGHAVAN

### Definition

[Link](#) [Link](#)

6 sigma: The Cause and Effect Diagram (C&E Diagram) is a fishbone-shaped diagram that helps a team brainstorm potential root causes of a defect. The problem to be solved is placed at the head of the fish and the six thought-generating categories - Personnel, Machines, Materials, Methods, Measurements and Environment - are placed at the ends of the fish bones.

### Label(s)

- [English](#)

Certified reference material Created Jun 12, 2019 (11:37) by Anurekha VIJAYARAGHAVAN

### Definition

[Link](#) [Link](#)

Guide EURACHEM: Reference material, accompanied by a certificate, one or more of whose property values are certified by a procedure, which established its traceability to an accurate realisation of the unit in which the property values are expressed, and for which each certified value is accompanied by an uncertainty at a stated level of confidence.

### Label(s)

- [English](#)

Chi-square test Created Jun 12, 2019 (11:37) by Anurekha VIJAYARAGHAVAN

### Definition

[Link](#) [Link](#)

Minitab : there are 2 common chi-squared tests : Pearson chi-square test and likelihood-ratio chi-square test. Each chi-square test can be used to determine whether or not the variables are associated (dependent).

The Pearson chi-square statistic ( $\chi^2$ ) involves the squared difference between the observed and the expected frequencies.

The likelihood-ratio chi-square statistic ( $G^2$ ) is based on the ratio of the observed to the expected frequencies.

### Label(s)

- [English](#)

Coefficient of Determination Created Jun 12, 2019 (11:38) by Anurekha VIJAYARAGHAVAN

### Definition

[Link](#) [Link](#)

6 sigma: A measure of the correlation between the dependent and independent variables in a Regression Analysis.

### Label(s)

- [English](#)

Condition of reproducibility Created Aug 18, 2023 (14:13) by Anurekha VIJAYARAGHAVAN , last modified Aug 18, 2023 (14:13) by GUENNOUNI, Nathalie

### Definition

[Link](#) [Link](#)

ISO 3534-2:2006: observation conditions where independent test results are obtained with the same method on identical test or measurement items in different test or measurement facilities with different operators using different equipment

### Label(s)

- [English](#)

Confidence Interval Created Jun 12, 2019 (11:40) by Anurekha VIJAYARAGHAVAN

### Definition

[Link](#) [Link](#)

IATF 16949: The range of values expected to include ( at a some desired probability called a confidence level) the true value of a parameter.

6 sigma: A range of numbers in which population parameters are likely to fall

### Label(s)

- [English](#)

Confidence Level Created Jun 12, 2019 (11:44) by Anurekha VIJAYARAGHAVAN

### Definition

[Link](#) [Link](#)

6 sigma: The fixed probability of correctly accepting the null hypothesis

### Label(s)

- [English](#)

Confident interval Created Jun 12, 2019 (11:45) by Anurekha VIJAYARAGHAVAN

### Definition

[Link](#) [Link](#)

MSA: The range of values expected to include (at some desired probability called a confidence level) the true value of a parameter.

### Label(s)

- [English](#)

Conformance Created Jun 12, 2019 (11:45) by Anurekha VIJAYARAGHAVAN

### Definition

[Link](#) [Link](#)

MSA : Conformance is a conclusion given following a product control situation when a measurement result is compliant with a defined specification.

## Label(s)

- [English](#)

Consistency Created Jun 12, 2019 (11:46) by Anurekha VIJAYARAGHAVAN

## Definition

[Link](#) [Link](#)

MSA: It is the difference in the variation of the measurements taken over time. It may be viewed as repeatability over time.

## Label(s)

- [English](#)

Control chart Created Jun 12, 2019 (11:47) by Anurekha VIJAYARAGHAVAN , last modified Aug 18, 2023 (14:13) by GUENNOUNI, Nathalie

## Definition

[Link](#) [Link](#)

MSA: A graph of a process characteristic, based on sample measurements in time order, used to display the behavior of a process, identify patterns of process variation, assess stability, and indicate process direction.

## Label(s)

- [French](#)
- [English](#)

Control chart Created Jun 12, 2019 (11:47) by Anurekha VIJAYARAGHAVAN , last modified Aug 18, 2023 (14:13) by GUENNOUNI, Nathalie

## Definition

[Link](#) [Link](#)

ISO 3534: Graphique sur lequel sont reportées les valeurs d'une mesure statistique faite sur une série d'échantillons dans un ordre particulier pour orienter le processus en fonction de cette mesure et pour contrôler et réduire la variation.

## Label(s)

- [French](#)
- [English](#)

Control limit (CL) Created Jun 12, 2019 (11:49) by Anurekha VIJAYARAGHAVAN , last modified Aug 18, 2023 (14:13) by GUENNOUNI, Nathalie

## Definition

[Link](#) [Link](#)

6 sigma: Control Limits are typically set +/-3 standard deviations from the centerline to determine whether or not the process is in control.

## Label(s)

- [French](#)
- [English](#)

Control limit (CL) Created Jun 12, 2019 (11:49) by Anurekha VIJAYARAGHAVAN , last modified Aug 18, 2023 (14:13) by GUENNOUNI, Nathalie

## Definition

[Link](#) [Link](#)

ISO 3534: Valeur utilisée pour déterminer la stabilité d'un processus.

## Label(s)

- [French](#)
- [English](#)

Correlation coefficient Created Jun 12, 2019 (11:50) by Anurekha VIJAYARAGHAVAN

## Definition

[Link](#) [Link](#)

It is a measure of the degree of linear relationship between two sets of data. The correlation coefficient ranges from -1 a perfect negative relationship, through 0 (no relationship), to +1, a perfect positive relationship.

## Label(s)

- [English](#)

Covariance Created Jun 12, 2019 (11:50) by Anurekha VIJAYARAGHAVAN , last modified Aug 18, 2023 (14:13) by GUENNOUNI, Nathalie

## Definition

[Link](#) [Link](#)

ISO 3534: Somme des produits des écarts des couples de variables d'un échantillon par rapport à leur moyenne, divisée par le nombre de termes de la somme moins 1.

### Label(s)

- [French](#)
- [English](#)

Covariance Created Jun 12, 2019 (11:50) by Anurekha VIJAYARAGHAVAN , last modified Aug 18, 2023 (14:13) by GUENNOUNI, Nathalie

## Definition

[Link](#) [Link](#)

ISO 3534: Sum of products of deviations of pairs of random variables in a sample from their sample means divided by the number of term in the sum minus one.

### Label(s)

- [French](#)
- [English](#)

Cp Created Jun 12, 2019 (11:51) by Anurekha VIJAYARAGHAVAN

## Definition

[Link](#) [Link](#)

MSA: It is the ratio of the customer-specified tolerance to six standard deviations of the short-term process variation

6 sigma: A capability index that measures the potential capability of a process to meet expected specification limits, or tolerance levels, in the short term, assuming the process is ideally centered (regardless of where the process is actually centered).

### Label(s)

- [English](#)

Cpk Created Jun 12, 2019 (11:52) by Anurekha VIJAYARAGHAVAN

## Definition

[Link](#) [Link](#)

MSA: It is a ratio of the distance between the process average and the closet specification limit, to three standard deviations of the short-term process variation.

6 sigma: A capability index that measures the potential capability of a current process to meet expected specification limits, or tolerance levels, in the short term, using the current process average.

### Label(s)

- [English](#)

Calibration Created Mar 29, 2021 (15:20) by GUENNOUNI, Nathalie

## Definition

[Link](#) [Link](#)

VIM : Operation that, under specified conditions, in a first step, establishes a relation between the quantity values with measurement uncertainties provided by measurement standards and corresponding indications with associated measurement uncertainties and, in a second step, uses this information to establish a relation for obtaining a measurement result from an indication

### Label(s)

- [English](#)

Condition of repeatability Created Mar 29, 2021 (16:00) by GUENNOUNI, Nathalie

## Definition

[Link](#) [Link](#)

MSA : fixed and defined conditions of measurement (instrument, standard, method, operator, environment, and assumptions)

### Label(s)

- [English](#)