

Q-QUIZ JULY 2019 - ANSWERS



PIQ-online.de

Important facts about the basics of technical statistics

- 1) The quintessence of Taguchi's loss function is that you experience a loss of quality the moment your product specification deviates from the target value.
- 2) The statistic describing the number with the highest frequency in a sample is called mode.

3) The normal distribution model describes the parameters expectation μ and standard deviation σ .

4) The series of table, chair and picture frame consists of nominally scaled values since you are able to distinguish these characteristic values, but they do not follow any natural rank order.

5) The values of a sample show several peaks in a histogram which indicates that the samples of several populations are mixed (e.g. data from different cavities, batches, etc.).

6) In order to conduct a statistical procedure, you formulate a null and an alternative hypothesis. The statistical procedure accepts or rejects the null hypothesis.

7) The acceptance chart for averages allows for minor systematic deviations of the distribution of characteristics.