

Q-QUIZ MAY 2019 - ANSWERS



There are numerous sources of errors when dealing with statistical procedures. It is important to identify and assess them correctly.

1. The first situation is about trying to analyse the relation between process characteristics “holding pressure“ and “length“. However, since you stacked the parts arbitrarily after the first measurement and took a linear measurement in random order from top to bottom, there is an incorrect assignment of characteristic values. Both characteristic values cannot be clearly allocated to a specific part.

2. The master Black belt’s challenge to calculate the “statistics“ of a product in development stage is missing a specific target and a principal task.

3. The fact that you deduce conclusions from five units and apply them to a subgroup of 500 units is inadmissible since you cannot draw conclusions about such a population from such a tiny subgroup.

4. By deleting all values (considered as “outliers“) exceeding the specification, you falsify the original values.

5. Since the resolution of the micrometre is only 0.01 mm for a tolerance of 0.05 mm, the resolution of the measurement system is insufficient.