



ASQ CRE Prep course

Lesson II. A. 5. a.

Non-Parametric Methods

The Approach

A long, multi-lane bridge stretches across a vast, turquoise ocean under a clear blue sky. The bridge is supported by several concrete pillars. In the foreground, the water is shallow and clear, revealing a rocky and sandy seabed. The horizon is visible in the distance, with a few small clouds on the horizon line.

Does a t-test have any assumptions?

NONPARAMETRIC METHODS

Parametric Assumptions

- **Assumed distribution for the population**
- **IF true, more powerful than non-parametric tests**

Nonparametric and Distribution Free

- **No assumed population distribution**
- **Some approaches for ranked data (not attribute or variable)**

Which is better?

- **Depends on what you know and tolerance for risk.**
- **Distribution?**
- **Conservative?**

Can you test if
data is normal?



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Ranking