



# ASQ CRE Prep course

Lesson II. A. 5. a.

Non-Parametric Methods

The Approach

A wide-angle photograph of a long, straight bridge stretching across a clear, turquoise-blue ocean. The sky is a vibrant blue with a few wispy white clouds. The bridge has a dark, textured surface and is supported by several large, light-colored pillars. The water is very clear, revealing a sandy ocean floor and some rocky outcrops in the foreground.

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