



ASQ CRE Prep course

Lesson V. C. 5.

Attribute Testing

Attribute Life Data

Pass/Fail

Survive or doesn't

**Time to failure doesn't
apply**

**Not as powerful as
using variables data**

**Can you think of an
example where this
would occur?**

Binomial Distribution

**Units replaced/
repaired upon failure
within sample.**

$$p \pm z_{\alpha/2} \sqrt{\frac{p(1-p)}{n}}$$

**Large sample use
normal approximation
[np and n(1-p) > 5]**

Hypergeometric Distribution

**Units not replaced/
repaired upon failure
within sample.**

$$p \pm z_{\alpha/2} \sqrt{\frac{p(1-p)}{n}} \sqrt{\frac{N-n}{N-1}}$$

**Large sample use normal
approximation [np and
n(1-p) > 5]**

**With hypergeometric
correction term**

What if you have
a small sample?



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Degradation Testing