

AQS 110 FALL 2016 – Module Study Guide (Exam Review)

This study guide is meant to guide you when in studying for the exam. I hope you find it helpful. It is not a contract of what content will or won't be on the exam. The questions on the exam will be from the topics below.

Textbook – Metrology Handbook

Chapter 20 (pgs 164-165), 24, 25 (pgs 233-237), 27 (pgs 259-262), 29 (pgs, 297-298, 308-309)

Module 3 Slide deck Handout

Understand how to work with fractions, decimals, ratios, conversions, scientific notation, etc.

Working with numbers

- Rounding and specification comparisons
- Qualitative versus Quantitative
- Discrete versus continuous

Descriptive Statistics

- Central tendency, dispersion, shape
- Sample population versus full population
- Central limit theorem

Inferential statistics - just because statistically different, does it matter?

Hypothesis testing -- why do we do it. (how to do it will not be covered)

Data analysis - histograms, line graphs, scatter plots

Statistical Process Control

- Specification limits versus control limits
- Trending

Process measures

- Process performance (Pp)
- Process Capability (Cp)