

# Quality America, Inc.

## STATISTICS / DESIGNED EXPERIMENTS AGENDA

Start	Duration	Day 1	Day 2	Day 3
9:00	(1-1/2 hr)	<b>Statistical Inference (with Workshops)</b> ➤ Estimating Mean ➤ Estimating Percents ➤ Confidence Intervals on Mean and Percents `	<b>Multiple Regression</b> ➤ Model Terms ➤ ANOVA ➤ Stepwise Regression ➤ Residuals Analysis ➤ Stabilizing Variance Transformations	<b>DOE Analysis</b> ➤ Significance Plots ➤ Extended Designs ➤ Tests for Lack of Fit ➤ Tests for Curvature
10:30	(1/4 hr)	<i>Morning Break</i>		
10:45	(1-1/4 hr)	<b>Hypothesis Testing (with Workshops)</b> ➤ One Mean ➤ Mean of Two Samples ➤ Power & Sample Size	<i>Workshop:</i> <b>Multiple Regression</b>	<i>Workshop:</i> <b>DOE Analysis</b>
12:00	(1/2 hr)	<i>Lunch</i>		
1:00	(1-1/2 hr)	<b>Simple Linear Regression</b> ➤ Scatter Diagram ➤ ANOVA ➤ Interpretation	<b>Introduction to Designed Experiments</b> ➤ Terminology ➤ Designed vs. Historical or OFAT ➤ Planning ➤ Factorial Designs ➤ Screening Designs	<b>Evolutionary Operation</b> ➤ Terminology & Use ➤ Methodology
2:30	(1/4 hr)	<i>Afternoon Break</i>		
2:45	(1-1/4 hr)	<i>Workshop:</i> ➤ <b>Linear Regression</b>	<i>Workshop:</i> <b>Creating Designs</b>	<i>Workshop:</i> <b>EVOP</b>