| Services | Deliverables |
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| ▪ Applied Statistics for LSS Workshop | ▪ 8 Hour workshop for 5 to 15 participants. |

## Applied Statistics for LSS Training

*"Measure with meaning, analyze with value."*

The eight hour workshop explores the full gamut of statistics typically seen during a Lean Six Sigma project completion. This training starts at the beginning stages of understanding statistics (which is assumed in many Six Sigma training scenarios) and progresses to more advanced topics. We begin with an introduction and review of basics, then progress into the Measures of Central Tendency, where we focus on a simple example that illustrates Standard Deviation and how this data computation is performed manually.

Other areas of focus are Data Normality, including ways to transform the data if it is not normal. Probability and Hypothesis Testing is covered in detail, including a review of the Hypothesis Testing Roadmap and Alpha and Beta Risk..

We also cover and discuss the tests of Means, ANOVA, and Proportional Data, with several examples offered for review. Correlation and Regression scenarios are likewise covered.

This workshop is directed toward Belt candidates, but is applicable to persons working in various Continuous Improvement roles, Quality Assurance situations, or Engineering related functions that deal with data on a regular basis. This workshop features the use of Minitab Statistical Software, and works well as a precursor to the directed Minitab training offered by the Advantage Kentucky Alliance.

### The AKA trainer will deliver the following learning activities and tools:

- Lecture with overheads
- Project statistical examples and scenarios
- Workbook for participants
- Discussion interaction
- Questions and answers

### Upon completion of the workshop participants will understand:

- The two types of statistics-descriptive and inferential
- Measures of Central Tendency
- How to calculate Standard deviation
- What Normal Data is and the importance of having it
- The use of Probability and Hypothesis testing in statistics
- Where to apply Tests of Means, ANOVA, and Proportional Tests
- How to apply Correlation and Regression testing in project terms

The company will provide the classroom and refreshments for participants and the AKA trainer.