



## Lean Six Sigma Black Belt Training

Phase Name	Lean Fundamentals 3 Days	Define / Measure 3 Days	Analyze 5 Days	Improve / Control 4 Days
<b>Duration</b>				
<b>Topics</b>	<u>Lean Fundamentals</u> Intro to Lean and Six Sigma Process Simulation Lean Principals Value Stream Mapping Process Flow Improv. and Pull Systems 5S and Visual Tools Set-Up Reduction Kaizen Preparation <i>Team Facilitation and Change Mgt</i> Lean Deliverables	<u>Define</u> Report-Out Lean Tools Intro to Six Sigma Voice of the Customer Cost of Poor Quality Project Selection and Definition Intro to Minitab <i>Project Management Tools</i> Team Charter Define Deliverables  <u>Measure</u> Report Out – Define Deliverables Process Mapping Multi Level Pareto Charts Fishbone/5-Why YX Matrix FMEA Basic Statistics Measurement System Analysis (MSA) Process Stability Process Capability <i>Advanced Capability Analysis</i> Measure Deliverables	<u>Analyze</u> Report Out - Measure Deliverables Analysis Plan Documentation of Critical X's Multi-Vari Analysis Sample Size selection Hypothesis Testing ANOVA <i>Non-Normal Data Transformation Tools</i> Correlation Linear Regression <i>Contingency Tables</i> <i>Logistic Regression</i> Analyze Deliverables	<u>Improve</u> Report Out - Analyze Deliverables <i>Designed Experiments - Advanced</i> Solution Selection Matrix Implementation Plan Improve Deliverables  <u>Control</u> Statistical Process Control <i>Integrating Lean Techniques for Control</i> Control Plans Process Capability Revisited Final Report Requirements Control Deliverables Schedule Final Project Review