

## Green Belt Lean Leader Onsite & Virtual Boot Camp Workshop - 2 days - \$1,095

<b>Define Phase</b>	<b>1.0 Define Phase</b>
	1.1 Introduction to Lean, Six Sigma, Operational Excellence, and Industry 4.0
	1.2 Operational Excellence Culture - <b>Workshop 1 What is your company culture?</b>
	1.3 Identifying and Eliminating Waste - <b>Workshop 2 Identifying Lean Waste</b>
	1.4 Lean Six Sigma Roles & Responsibilities
	1.1.1 DMIAC Problem-Solving Approach
	1.1.2 Develop Project Charter - <b>Workshop 3 Identifying a good problem statement</b>
	1.1.3 The Problem Solving Strategy $Y = f(x)$
	1.1.4 Voice of the Customer, Business and Employee
	1.1.5 Cost Benefit Analysis (CBA) - <b>Workshop 4 Cost Benefit Analysis</b>
	1.1.6 Developing Project Metrics
	1.2.1 Financial Benefits & Risk
	1.2.2 Failure Modes & Effects Analysis (FMEA)
	1.2.3 Building a Business Case & Project Charter - <b>Workshop 5 Project Charter</b>
	1.3 Critical to Quality Characteristics (CTQ's) - <b>Workshop 6 Critical-To-Quality Flow Chart</b>
	1.4 Pareto Analysis (80:20 rule) - <b>Workshop 7 Pareto Analysis</b>
	1.4.1 Lean 5S Visual Management Systems to Support Workplace Safety
1.4.2 Lean Six Sigma Design for Manufacturing	
<b>Measure Phase</b>	<b>2.0 Measure Phase</b>
	2.1 Process Analysis Tools
	2.1.1 Process Definition
	2.1.2 SIPOC
	2.1.3 Spaghetti Diagram - <b>Workshop 8 Spaghetti Diagrams</b>
	2.1.4 Service & Product Process Flow Charts - <b>Workshop 9 Process Flow Chart</b>
	2.1.5 Value Stream Map - <b>Workshop 10 Value Stream Mapping</b>
	2.1.6 Swinlane Diagram
	2.2 Principles of Product and Service Flow
	2.2.1 Batch verses One Piece Flow Simulation
	2.2.2 Bottleneck and Dynamic Bottlenecks
	2.2.3 Takt Time
	2.2.4 Just-In-Time
	2.2.5 Kanbans
	2.3 Quality Improvement Approach
	2.3.1 Total Cost of Quality - Cost of Poor Quality (COPQ) - <b>Workshop 11 COPQ</b>
	2.3.2 Root Cause Analysis
2.3.3 Fishbone Diagrams and 5-Whys	

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<b>Analyze Phase</b>	<b>3.0 Analyze Phase</b>
	3.1 Patterns of Variation
	3.1.1 Stratification - <b>Workshop 12 Scatter Plot</b>
	3.1.2 Multi-Vari Analysis
	3.1.3 Classes of Distributions
	2.2 Rapid Changeover Setup Reduction - <b>Workshop 13 Lean Edit Free Download Microsoft</b>
	2.3 Six Sigma Statistics
	2.3.1 Basic Statistics - <b>Workshop 14 Histogram &amp; Boxplot</b>
	2.3.2 Descriptive Statistics
	2.3.3 Normal Distributions & Normality - <b>Workshop 15 Normal Distribution Graph</b>
	2.3.4 Graphical Analysis
	2.4 Measurement System Analysis
	2.4.1 Precision & Accuracy - <b>Workshop 16 Precision &amp; Accuracy</b>
	2.4.2 Bias, Linearity & Stability
2.4.3 Gage Repeatability & Reproducibility (Gage R&R)	
<b>Improve Phase</b>	<b>4.0 Improve Phase</b>
	4.1 Lean Comparison Analysis
	4.2 Improve & Implementation Plan
	4.3 Standardization
<b>Control Phase</b>	<b>ABC Fighter Aircraft Plant</b> <b>Physical Interactive Learning Workshop with Knex Building Blocks</b> <b>Only available with onsite training.</b>
	<b>5.0 Control Plan</b>
	5.1 Implement Lean Controls
	5.1.1 Control Methods for 5S
	5.1.2 Poka-Yoke (Mistake Proofing)
	5.2 Statistical Process Control (SPC)
	5.2.1 Data Collection for SPC
	5.2.2 I-MR Chart - <b>Workshop 17 Individuals-Moving Range (I-MR) Chart</b>
	5.2.3 Xbar-R Chart - <b>Workshop 18 X-Bar-R Control Charts</b>
	5.3 Lean Comparison Analysis with Cost Benefit Analysis
	5.3 Sustain Lean Improvements
<b>Certification Exam Requirements</b>	Caldwell & Associate Certification Exam included with the course. LGB project must be approved.
	You must have a lean green belt project and pass the exam by 70% or higher for certification.
	Lean Six Sigma Master Black Belt Project consulting consultation to completion of the project.
<b>Software</b>	Lean Edit Software - 30 days Free Download only available with Microsoft computers

