

Lean Six Sigma Green Belt Onsite & Virtual Boot Camp Workshop - 3 days - \$1,495/seat

Define Phase	1.0 Define Phase
	1.1 Introduction to Lean, Six Sigma, Operational Excellence, and Industry 4.0
	1.2 Operational Excellence Culture - Workshop 1 What is your company culture?
	1.3 Identifying and Eliminating Waste - Workshop 2 Identifying Lean Waste
	1.4 Lean Six Sigma Roles & Responsibilities
	1.1.1 DMIAC Problem-Solving Approach
	1.1.2 Develop Project Charter - Workshop 3 Identifying a good problem statement
	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) - Workshop 4 Cost Benefit Analysis
	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 - Workshop 5 Project Charter
	1.3 Critical to Quality Characteristics (CTQ's) - Workshop 6 Critical-To-Quality Flow Chart
	1.4 Pareto Analysis (80:20 rule) - Workshop 7 Pareto Analysis
	1.4.1 Lean 5S Visual Management Systems to Support Workplace Safety
1.4.2 Lean Six Sigma Design for Manufacturing	
Measure Phase	2.0 Measure Phase
	2.1 Process Analysis Tools
	2.1.1 Process Definition
	2.1.2 SIPOC
	2.1.3 Spaghetti Diagram - Workshop 8 Spaghetti Diagrams
	2.1.4 Service & Product Process Flow Charts - Workshop 9 Process Flow Chart
	2.1.5 Value Stream Map - Workshop 10 Value Stream Mapping
	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 - Workshop 11 Cost of Poor Quality
	2.3.2 Root Cause Analysis
2.3.3 Fishbone Diagrams and 5-Whys	

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Analyze Phase	3.0 Analyze Phase
	3.1 Patterns of Variation
	3.1.1 Stratification - Workshop 12 Scatter Plot
	3.1.2 Multi-Vari Analysis
	3.1.3 Classes of Distributions
	2.2 Rapid Changeover Setup Reduction - Workshop 13 Lean Edit Free Download Microsoft
	2.3 Six Sigma Statistics
	2.3.1 Basic Statistics - Workshop 14 Histogram & Boxplot Minitab
	2.3.2 Descriptive Statistics
	2.3.3 Normal Distributions & Normality - Workshop 15 Normal Distribution Graph Minitab
	2.3.4 Graphical Analysis
	2.4 Measurement System Analysis
	2.4.1 Precision & Accuracy - Workshop 16 Precision & Accuracy
	2.4.2 Bias, Linearity & Stability
	2.4.3 Gage Repeatability & Reproducibility
	2.4.4 Variable & Attribute MSA
	2.5 Process Capability
2.5.1 Capability Analysis	
2.5.2 Concept of Stability	
2.5.3 Attribute & Discrete Capability	
2.5.4 Monitoring Techniques	
Improve Phase	4.0 Improve Phase
	4.1 Improve & Implementation Plan
	4.1.1 Simple Linear Regression
	4.1.2 Correlation
4.1.3 Regression Equations	
<p>ABC Fighter Aircraft Plant Physical Interactive Learning Workshop with Knex Building Blocks Only available with onsite training.</p>	



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Control Phase	5.0 Control Plan
	5.1 Lean Six Sigma 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 - Workshop 17 Individuals-Moving Range (I-MR) Chart Minitab
	5.2.3 Xbar-R Chart - Workshop 18 X-Bar-R Control Charts Minitab
	5.2.4 U Chart
	5.2.5 P Chart
	5.2.6 NP Chart
	5.2.7 Xbar-S Chart
	5.3 Lean Six Sigma Comparison Analysis with Cost Benefit Analysis
	5.3.1 Elements of the Control Plan
5.3.2 Elements of the Response Plan	
Certification Exam Requirements	Caldwell & Associate Certification Exam included with the course. LSSGB project must be approved.
	You must have a lean six sigma 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.
Software	Lean Edit Software - 30 days Free Trial Download only available with Microsoft computers
	Minitab - 30 days Free Trial Download