

Lean Six Sigma Certification

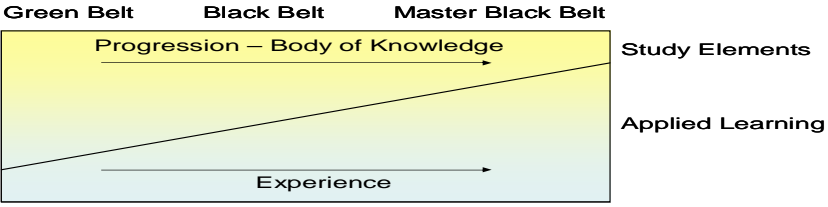
Lean + Six Sigma = Lean Six Sigma Competency

Problem Solving & Corrective Action - LSS Yellow Belt																									
Prerequisite	Prior experience with Lean Six Sigma (LSS)																								
Training	Problem Solving & Corrective Action - two (2) 3 day sessions																								
Demonstrated skills	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Problem Statement</td> <td>Seven Steps for Problem Solving, DMIAC</td> </tr> <tr> <td>Definition of quality</td> <td>Basic Quality Terms</td> </tr> <tr> <td>Process Mapping</td> <td>Throughput Yield</td> </tr> <tr> <td>Process FMEA</td> <td>Interim Action</td> </tr> <tr> <td>Cause & Effect, Pareto Analysis</td> <td>Process Monitoring and Control</td> </tr> </table>	Problem Statement	Seven Steps for Problem Solving, DMIAC	Definition of quality	Basic Quality Terms	Process Mapping	Throughput Yield	Process FMEA	Interim Action	Cause & Effect, Pareto Analysis	Process Monitoring and Control														
Problem Statement	Seven Steps for Problem Solving, DMIAC																								
Definition of quality	Basic Quality Terms																								
Process Mapping	Throughput Yield																								
Process FMEA	Interim Action																								
Cause & Effect, Pareto Analysis	Process Monitoring and Control																								
Activities	Participate as a team member in one (1) Master Sensei coached LSS Rapid Improvement Event, or completion of a Project with adequate results.																								
Results	Certification of classroom training of PS/CA Yellow Belt certification after demonstration of usage of tools through an RIE or a project																								
Capabilities provided	Understand basic problem solving and the structured approach of Rapid Improvement Events																								
LSS Green Belt Certification																									
Prerequisite	Prior experience with Lean Six Sigma (LSS)																								
Training	LSS Green Belt - two (2) five day sessions																								
Demonstrated skills	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Problem Statement</td> <td>Seven Steps for Problem Solving, DMIAC</td> </tr> <tr> <td>Definition of quality</td> <td>Basic Quality Terms</td> </tr> <tr> <td>Process Mapping</td> <td>Throughput Yield</td> </tr> <tr> <td>Process FMEA</td> <td>Interim Action</td> </tr> <tr> <td>Cause & Effect, Pareto Analysis</td> <td>Process Monitoring and Control</td> </tr> <tr> <td>Error Proofing</td> <td>Data Collection</td> </tr> <tr> <td>Intro to DOE concepts</td> <td>Process Mapping</td> </tr> <tr> <td>Value Stream Mapping</td> <td>Cause & Effect Matrix</td> </tr> <tr> <td>Project Definition & Selection</td> <td>Basic 6 S and Visual Management</td> </tr> <tr> <td>Measurement System Analysis</td> <td>Standard Work</td> </tr> <tr> <td>Process Capability Studies</td> <td>Pull Systems</td> </tr> <tr> <td>Project Management</td> <td>One Item Flow</td> </tr> </table>	Problem Statement	Seven Steps for Problem Solving, DMIAC	Definition of quality	Basic Quality Terms	Process Mapping	Throughput Yield	Process FMEA	Interim Action	Cause & Effect, Pareto Analysis	Process Monitoring and Control	Error Proofing	Data Collection	Intro to DOE concepts	Process Mapping	Value Stream Mapping	Cause & Effect Matrix	Project Definition & Selection	Basic 6 S and Visual Management	Measurement System Analysis	Standard Work	Process Capability Studies	Pull Systems	Project Management	One Item Flow
Problem Statement	Seven Steps for Problem Solving, DMIAC																								
Definition of quality	Basic Quality Terms																								
Process Mapping	Throughput Yield																								
Process FMEA	Interim Action																								
Cause & Effect, Pareto Analysis	Process Monitoring and Control																								
Error Proofing	Data Collection																								
Intro to DOE concepts	Process Mapping																								
Value Stream Mapping	Cause & Effect Matrix																								
Project Definition & Selection	Basic 6 S and Visual Management																								
Measurement System Analysis	Standard Work																								
Process Capability Studies	Pull Systems																								
Project Management	One Item Flow																								
Activities	Lead Three Rapid Improvement Events and a Project from the impacted value stream(s) to achieve the results below:																								
Results	<ol style="list-style-type: none"> 1) Achieve verifiable savings of > \$ 300,000 from LSS projects / activities (savings to be derived approximately equally from "lean" and "sigma" work) 2) Pass written LSS GB exam 3) Pass verbal LSS GB interview with Simpler Master Sensei, Command Deployment Director, and Command staff members (as appropriate) including: <ol style="list-style-type: none"> a) review of project documentation b) demonstration of tool utilization 4) Green Belt Certification 																								
Capabilities provided	Understand LSS improvement tools and event/project management fundamentals to be contributors to Black Belt events/projects or to lead small-scale LSS improvement events/ projects																								
LSS Black Belt Certification																									
Prerequisite	LSS Green Belt certification																								
Training	LSS Black Belt basics - two (2) five day sessions																								
Demonstrated Skills	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Value Stream Mapping</td> <td>Multi-Vari Studies</td> </tr> <tr> <td>Rapid Improvement Event Guide</td> <td>Intro Design of Experiments</td> </tr> <tr> <td>Design for Manufacturing (VOC-3P)</td> <td>Planning and organizing of experimnt</td> </tr> <tr> <td>Load-Load/Cell Design</td> <td>Full Factorial Design</td> </tr> <tr> <td>Visual Management - 6S Advanced</td> <td>Fractional Factorial</td> </tr> <tr> <td>Intro to Minitab</td> <td>One Way ANOVA</td> </tr> <tr> <td>Types of Data</td> <td>Managing for Daily Improvements</td> </tr> <tr> <td>Cost Analysis</td> <td>Assessment at the Cell Level</td> </tr> </table>	Value Stream Mapping	Multi-Vari Studies	Rapid Improvement Event Guide	Intro Design of Experiments	Design for Manufacturing (VOC-3P)	Planning and organizing of experimnt	Load-Load/Cell Design	Full Factorial Design	Visual Management - 6S Advanced	Fractional Factorial	Intro to Minitab	One Way ANOVA	Types of Data	Managing for Daily Improvements	Cost Analysis	Assessment at the Cell Level								
Value Stream Mapping	Multi-Vari Studies																								
Rapid Improvement Event Guide	Intro Design of Experiments																								
Design for Manufacturing (VOC-3P)	Planning and organizing of experimnt																								
Load-Load/Cell Design	Full Factorial Design																								
Visual Management - 6S Advanced	Fractional Factorial																								
Intro to Minitab	One Way ANOVA																								
Types of Data	Managing for Daily Improvements																								
Cost Analysis	Assessment at the Cell Level																								
Activities	Lead Six (6) Rapid Improvement Events and a project from the impacted value stream(s) to achieve the results below:																								
Results	<ol style="list-style-type: none"> 1) Achieve additional verifiable savings of > \$ 500,000 from LSS projects / activities (savings to be derived approximately equally from "lean" and "sigma" work) 2) Pass written LSS BB exam 3) Pass verbal LSS BB interview with Simpler Master Sensei and Command Deployment Director, and Command staff members (as appropriate) including: <ol style="list-style-type: none"> a) review of project documentation b) demonstration of tool utilization 4) Black Belt Certification 																								

Capabilities Provided ability to lead LSS projects and events where basic LSS principles and tools are applied

LSS Master Black Belt Certification

Prerequisite	LSS Black Belt certification
Training	Teach one session each of Yellow Belt, Green Belt and Black Belt Certification with Simpler Master Sensei Coaching and mentoring by Master Sensei
Demonstrated skills	Proven ability to implement process improvements in manufacturing / engineering / transactional and other functions is required; must also possess a strong process mindset of cause and effect. Customer focused mindset (Internal and External Customers) with experience identifying and achieving customer critical to quality characteristics (CTQ's). Demonstrate proven track record of delivering results through use of the Lean Six Sigma methodology and tools and leading teams in a dynamic business environment. Must possess strong statistical, analytical and problem solving skills and be able to motivate others toward a common vision. Must be intimately familiar with all Lean Six Sigma tools and the methodology and capable of teaching all methods / tools to large groups as well as one-on-one coaching with Black Belts or Green Belts
Activities	Lead a minimum of 36 Master Sensei coached LSS Rapid Improvement Events from impacted.
Results	1) At the MBB level results are delivered through others with the MBB as a coach, trainer and mentor 2) Must have mentored a minimum of 4 BB's through to their certification at the BB level 3) Must pass a written exam and an oral interview with the Master Sensei and Command Deployment Director and Command staff members (as appropriate)
Capabilities provided	ability to perform as an in-house expert for coaching LSS knowledge and learning



Lean + Six Sigma = Lean Six Sigma Competency