

RPM-Academy
Lean Six Sigma Certification Course Listing

ID	TITLE	DESCRIPTION	Lean White Belt	Lean Six Sigma White Belt	Effective Process Managers	Lean Six Sigma Yellow Belt	Lean Green Belt	Lean Six Sigma Green Belt	Lean Black Belt	Lean Six Sigma Black Belt	RPM-Academy Course Library Item (URL)
L001	Introduction to Lean	The history of Lean, Five Principles of Lean, Defining value, The Eight Wastes, the concept of "Flow" and introduction to Value Streams and Kaizen rapid improvement.	X	X	X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:125
S001	Introduction to Six Sigma	The history of Six Sigma, the DMAIC approach, characterizing process variation and $Y = f(x)$, DPMO and the "Hidden Factory" and the Critical To (CT) Tree.		X	X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:130
L002-1	Writing Effective Problem Statements	Learn how to use the 5W2H method to write effective problem statements, a key first step in solving a problem and improving processes.	X	X	X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:131
L002-2	Introduction to Kaizen	Introduction to Kaizen rapid improvement and how to plan an execute successful Kaizen events	X	X	X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:132
L002-3	Using the A3 Report for Rapid Improvement	How to use the A3 Report for rapid improvement projects	X	X	X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:133
L002-4	SIPOC Mapping	Construct SIPOC diagrams to provide a high-level view of a process, incorporating key information about suppliers, process inputs, the process process itself, and the key outputs required by customers.	X	X	X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:134
L003-1	Understanding and Implementing 5S/6S	Establishing 5S/6S workplace environments.	X	X	X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:135
L003-2	Implementing and Facilitating Lean "Huddles"	How to implement and facilitate daily Lean "Huddles".	X	X	X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:136
L003-3	Visual Workplace	Learn how to leverage visual workplace principles, methods and techniques to enable a work environment to become self-ordering, self-explaining, self-regulating and self-improving.	X	X	X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:137
L003-4	Standard Work	Understand the principles and methods behind standard work including key components that make up standard work, including takt time and task sequencing.	X	X	X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:138
L004-1	Mapping the Process	Learn how to map a process using process flow mapping tools and techniques.			X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:139
L004-2	Spaghetti Diagrams	Learn how to construct spaghetti diagrams to identify opportunities for improvement in work cell/workplace design and layout.			X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:140
L004-3	Gemba (Waste) Walks	Learn how to plan and conduct "Gemba Walks" to better understand the customer experience, identify improvement opportunity and engage the front line team.			X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:141
S002-1	Failure Modes and Effects Analysis	How identify and assess process risk using the FMEA and leveraging this for continuous improvement.			X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:142
S002-2	Error-Proofing/Mistake-proofing	Learn how to apply error-proofing, (Poka Yoke), to improve processes and reduce risk.			X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:143
S003	Controlling the Process	Introduction to statistical process control (SPC) and control plans, and using "voice of the process" to manage and improve your processes.			X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:144
S004	Assessing Process Capability	Capturing and assessing the voice of the customer. Understanding process tolerance versus specifications. Determining process capability.			X	X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:145
L005-1	Constructing Project Charters	Establishing "winning conditions" for your projects using project charters.				X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:146

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L005-2	Managing Change	Understand how to assess resistance and conduct change readiness assessments and stakeholder analysis to better manage change.				X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:147
L006-1	Brainstorming, Affinity Diagrams & Team Voting	Learn how to facilitate effective brainstorming sessions, group by affinity, and use voting techniques to help prioritize and achieve consensus.				X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:148
L006-2	Cause & Effect Diagrams & the Five Whys	Construct cause and effect diagrams. Aka "Ishikawa", "Fishbone". Use of the "Five Whys".				X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:149
L006-3	Pareto Charts and the 80/20 Rule	Constructing Pareto charts to focus on the "vital few".				X	X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:150
L007	Value Stream Mapping	Learn how to construct value stream maps - an essential Lean tool.					X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:151
L008	Kanban and Material Management	Eliminating waste and constraints to process flow with improved material management techniques including Kan Ban and point of use systems. JIT, Touch once, batch reduction and single piece flow.					X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:152
L009-1	Work Leveling/Load Balancing	Construct a load leveling chart and apply techniques to balance work and reduce bottlenecks.					X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:153
L009-2	Work Cell Design & Improved Office/Facility Layout	Improve work cell layout and design to improve flow.					X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:154
L010	Rapid Changeover Techniques/SMED	Rapid/Quick changeover techniques.					X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:155
L011	Total Productive Maintenance (TPM)	Implementing Total Productive Maintenance (TPM) in the workplace. How to calculate Overall Equipment Efficiency (OEE).							X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:156
L012	Process Control Plans and Control Charts	Statistical process control (SPC) and implementing process control plans and selecting and constructing control charts and run charts to capture the voice of the process.					X	X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:157
S005	Introduction to Basic Statistics	Populations and samples, parameters and statistics, types of data, descriptive and inferential statistics. Central tendency and dispersion, proportions and frequencies.						X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:158
S006-1	The Normal Distribution	Understanding the normal distribution and its properties.						X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:159
S006-2	The Standard Normal (Z) Distribution	Understanding the standard normal (Z) distribution.						X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:160
S006-3	Testing for Normality	Conduct and interpret the results of a normality test.						X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:161
S007-1	Graphical Analysis - The Histogram	Introduction to the histogram - features and interpreting results.						X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:162
S007-2	Graphical Analysis - The Boxplot	Introduction to boxplots - features and interpreting results.						X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:163
S007-3	Graphical Analysis - The Scatter Plot	Introduction to scatter and matrix plots - features and interpreting results.						X	X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:164
L013	Lean Deployment Strategy and Methods	Deploying a sustainable Lean strategy. Use of Hoshin (Kanri) Planning, the X-Matrix, Catchball and Bowling Charts.							X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:165
L014	Lean and Green: The Environmental Benefits	Identifying energy waste, carbon taxes and emissions reduction, Lean and Green supply chains, environmental accounting and reducing energy waste with Lean.							X	X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:166
S008	Central Limit Theorem and Confidence Intervals	The Central Limit Theorem. Introduction to confidence intervals. Standard error of the mean and confidence intervals for the mean.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:167

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S009	Introduction to Hypothesis Testing	What is a hypothesis test? The null and alternate hypotheses and establishing Alpha (Type I) and Beta (Type II) risk. How to conduct a hypothesis test.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:168
S010	Data Collection and Sampling	Data collection techniques and sampling methods. Determining sample sizes to satisfy Alpha and Beta risk.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:169
S011	MSA - Gauge R & R Studies	Gauge repeatability and reproducibility studies. Assessing for Linearity and Bias. Gauge run charts.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:170
S012	MSA - Attribute Agreement Analysis	Using attribute agreement analysis to assess the quality of your measurement system.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:171
S013-1	Process Capability Measures - Discrete	Discrete capability studies using Yield, Throughput Yield, Rolled Throughput Yield, DPMO, and Z score/Z Bench,.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:172
S013-2	Process Capability Measures - Continuous	Continuous capability studies and interpreting Cp, Cpk, Cpm, Pp, Ppk, PPM, etc.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:173
S014	Correlation and Simple Linear Regression	Correlation studies and simple linear regression. Interpreting p-values, R-Squared, R-Squared (adj). Correlation versus causation.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:174
S015	Discrete & Continuous Probability Distributions	Introduction to probability distributions including Binomial, Poisson, t-Distribution, F-Distribution, Chi-Square. The concept of the degrees of freedom.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:175
S016	Hypothesis Testing - Mean and Median	Use of the Z-test, (Student) t-Test, Paired sample test, Sign, Wilcoxon, Mann-Whitney, Kruskal-Wallis and Mood's Median tests.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:176
S017	Test for Equal Variance	Homogeneity of Variance. Use of the F-Test, Bartlett and Levene's test to test for equal variance.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:177
S018	Analysis of Variance (ANOVA) and ANOM	Analysis of Variance (1 and 2 way) and Analysis of Means (ANOM).						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:178
S019-1	Proportion Testing	Testing for changes in count or frequency using proportion testing (1 and 2 sample).						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:179
S019-2	Chi-Square Analysis	Testing for changes in count or frequency Chi-Square analysis (Goodness of Fit and Test of Independence).						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:180
S020-1	Voice of the Customer - Kano Analysis	Techniques to capture and quantify voice of the customer (VOC) including Kano Analysis, Net Promoter Score (NPS), and use of Pairwise Comparison and Conjoint Analysis.						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:181
S020-2	Voice of the Customer - Net Promoter Score	Techniques to quantify voice of the customer (VOC) using Net Promoter Score (NPS).						X		X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:182
S020-3	Voice of the Customer - Advanced Analysis	Techniques to quantify voice of the customer (VOC) including use of Pairwise Comparison and Conjoint Analysis.								X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:183
S021	Use of Data Transformation in Analysis	Use of Box-Cox and other techniques to transform non-normal data for improved sensitivity of analysis.								X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:184
S022	Introduction to Logistic Regression	Binary and Ordinal Logistic Regression techniques.								X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:185
S023	Introduction to General Linear Models (GLM)	Use of the General Linear Model to determine whether the means of two or more groups differ. Including random factors, covariates, or a mix of crossed and nested factors.								X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:186
S024	Introduction to Reliability Life Data Analysis	Introduction to Reliability Life Data Analysis ("Weibull Analysis") and the study and modeling of observed product lives.								X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:187

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S025	Introduction to Design of Experiments (DOE)	An introduction to Design of Experiments (DOE) and factorial models. DOE terminology and concepts. Conducting a simple factorial DOE.								X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:188
S026	Conducting Design of Experiment - Factorial Designs	Designing and conducting full and fractional factorial design of experiments.								X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:189
S027	Conducting DOE - Response Surface Methods	Designing and conducting Response Surface Method (RSM) Design of Experiments.								X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:190
S028	Introduction to Design for Six Sigma	Introduction to Design of Six Sigma principles and methods. Using Quality Function Deployment (QFD) and the House of Quality (HOQ) framework.								X	https://platinum-rpmacademy.talentlms.com/catalog/info/id:191