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Lean Six Sigma Black Belt Body of Knowledge

Topic	Subtopics	Bloom's
Introduction to Lean Six	History, Benefits, Roles, Organizational Structure	Taxonomy Level Understand
Sigma		
Advanced Lean	Kanban, Kaizen, JIT, Continuous Flow, Lean Culture	Understand
Principles		
Advanced Six Sigma	Six Sigma Metrics, CTQ, Cost of Poor Quality, Six Sigma Culture	Understand
Leadership and Change	Leading Teams, Change Models, Stakeholder Engagement	Evaluate
Management		
Define Phase	Problem Statement, VOC, SIPOC, Project Charter, High-Level	Apply
	Process Map	
Measure Phase	Detailed Process Mapping, Data Collection Plan, Measurement	Apply
	System Analysis	
Analyze Phase	Root Cause Analysis, Value Stream Mapping, Pareto Analysis,	Analyze
	Advanced Process Mapping	
Improve Phase	Brainstorming, Solution Development, FMEA, Design for Six Sigma	Evaluate
Control Phase	Control Plans, SPC, Monitoring, Sustainability, Standardization	Evaluate
Advanced Statistics	Probability Distributions, Sampling Techniques, Advanced Statistical Analysis	Analyze
Hypothesis Testing	Null Hypothesis, Alternative Hypothesis, P-Value, Advanced	Analyze
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Regression Analysis	Simple and Multiple Regression, Logistic Regression,	Analyze
	Correlation, ANOVA	
Design of Experiments	Factorial Designs, Response Surface Methodology, Taguchi	Evaluate
(DOE)	Methods	
Control Charts	Types, Interpretation, Implementation, Advanced Control Charts	Evaluate
Risk Management	FMEA, Risk Mitigation Plans, Contingency Plans, Advanced Risk	Evaluate
	Management	
Financial Impact	Cost-Benefit Analysis, ROI, Financial Metrics, Cost of Quality	Analyze
Project Management	Project Selection, Charter, Stakeholder Analysis, Advanced	Evaluate
	Project Management Techniques	
Lean Six Sigma in	Service Process Mapping, Lean Service Principles, Service	Analyze
Services	Metrics Menufacturing Process Manning Lean Manufacturing Principles	Anglygo
Lean Six Sigma in Manufacturing	Manufacturing Process Mapping, Lean Manufacturing Principles, Manufacturing Metrics	Analyze
Strategic Planning	Hoshin Kanri, Balanced Scorecard, Strategic Goal Setting	Evaluate
Lean Six Sigma Deployment	Deployment Planning, Communication, Organizational Readiness	Evaluate
Coaching and Mentoring	Coaching Techniques, Mentoring Approaches, Developing Others	Evaluate
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