

Lean Six Sigma Black Belt Certification Program Outline & Schedule

Session	Project Phase	Concepts Covered	Content	Coaching
Session 1	Black Belt Introduction	Training Schedule & Structure, LSS Overview, History of Lean, DMAIC, Project Charters, A3 Project Management	Monday September 23 1pm – 3pm MT	Thursday September 26 11am – 12pm MT
Session 2	Define	SIPOC, VOC, Scope of Work, Building a Business Case, Project Planning, Gemba Walks, Design for Six Sigma	Monday September 30 1pm – 3pm MT	Friday October 4 11am – 12pm MT
Session 3	Define	Problem & Goal Statements, Data Analysis	Monday October 7 1pm – 3pm MT	Thursday October 10 11am – 12pm MT
Session 4	Define	Stakeholder Analysis, Parking Lot, Team Creation, Quick Wins, Define Summary	Monday October 28 1pm – 3pm MT	Thursday October 31 11am – 12pm MT
Session 5	Measure	Process Mapping, Value Stream Mapping	Monday November 4 1pm – 3pm MT	Thursday November 7 11am – 12pm MT
Session 6	Measure	Data Collection Plan, Basic Statistics, Graphical Analysis, Process Capability, Measuring Processes, Operational Definitions & KPI's	Monday November 18 1pm – 3pm MT	Thursday November 21 11am – 12pm MT
Session 7	Measure	Quality Metrics, Critical to Quality Characteristics, Customer Quality Requirements, Cost of Poor Quality	Monday November 25 1pm – 3pm MT	Thursday November 28 11am – 12pm MT
Session 8	Measure	Capacity Analysis, Measurement Systems Analysis, Measure Summary	Monday December 2 1pm – 3pm MT	Thursday December 5 11am – 12pm MT
Session 9	Analyze	8 Wastes, Value Analysis, Waste Walks, Process Observations	Monday December 9 1pm – 3pm MT	Thursday December 12 11am – 12pm MT
Session 10	Analyze	Root Cause Analysis, 5 Why's, Fishbone Diagrams, Total Productive Maintenance (TPM)	Monday December 16 1pm – 3pm MT	Wednesday December 18 11am – 12pm MT
Session 11	Analyze	Cause Mapping, Failure Modes & Effects Analysis	Monday January 6 1pm – 3pm MT	Thursday January 9 11am – 12pm MT
Session 12	Analyze	Value Analysis, Time & Motion Studies, Spaghetti Diagrams, Resource Maps, Information Flow Maps, Overall Equipment Effectiveness (OEE), 6 Big Losses	Monday January 13 1pm – 3pm MT	Thursday January 16 11am – 12pm MT

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Session 13	Analyze	Design of Experiments, Hypothesis Testing, Analyze Summary	Monday January 20 1pm – 3pm MT	Thursday January 23 11am – 12pm MT
Session 14	Improve	SMED Quick Changeover, Cell Design, Workload Balancing, Poka-Yoke Mistake Proofing	Monday January 27 1pm – 3pm MT	Thursday January 30 11am – 12pm MT
Session 15	Improve	5S, Kanban, Lean Material Flow, Pull Systems, Andon Systems	Monday February 3 1pm – 3pm MT	Thursday February 6 11am – 12pm MT
Session 16	Improve	Brainstorming, Process Transformation Unicorns, PDCA, Pilots, Improvement Action Register	Monday February 10 1pm – 3pm MT	Thursday February 13 11am – 12pm MT
Session 17	Improve	Kaizen Events, Creating the Future State, Fulfilling the Future State, The Merlin Method, Improve Phase Summary	Monday February 24 1pm – 3pm MT	Thursday February 27 11am – 12pm MT
Session 18	Improve	Design for Six Sigma (DFSS)	Monday March 3 1pm – 3pm MT	Thursday March 6 11am – 12pm MT
Session 19	Control	Quantifying Process Improvements, Process Sustainment	Monday March 10 1pm – 3pm MT	Thursday March 13 11am – 12pm MT
Session 20	Control	Statistical Process Control	Monday March 17 1pm – 3pm MT	Thursday March 20 11am – 12pm MT
Session 21	Control	Standard Work, Visual Management, MOS	Monday March 24 1pm – 3pm MT	Thursday March 27 11am – 12pm MT
Session 22	Control	Process Dashboards, Control Plans, Process Monitoring	Monday March 31 1pm – 3pm MT	Thursday April 3 11am – 12pm MT
Session 23	Control	Change Management	Monday April 7 1pm – 3pm MT	Thursday April 10 11am – 12pm MT
Session 24	Control	Process Documentation, Communication Plans, Training Plans, Control Summary, Black Belt Certification Process	Monday April 14 1pm – 3pm MT	Thursday April 17 11am – 12pm MT