

# Lean Six Sigma Black Belt Certification Program Outline & Schedule

Session	Project Phase	Concepts Covered	Content	Coaching
<b>Session 1</b>	Black Belt Introduction	Training Schedule & Structure, LSS Overview, History of Lean, DMAIC, Project Charters, A3 Project Management	Tuesday April 2 10am – 12pm MT	Thursday April 4 11am – 12pm MT
<b>Session 2</b>	Define	SIPOC, VOC, Scope of Work, Building a Business Case, Project Planning, Gemba Walks, Design for Six Sigma	Tuesday April 9 10am – 12pm MT	Thursday April 11 11am – 12pm MT
<b>Session 3</b>	Define	Problem & Goal Statements, Data Analysis	Tuesday April 16 10am – 12pm MT	Thursday April 18 11am – 12pm MT
<b>Session 4</b>	Define	Stakeholder Analysis, Parking Lot, Team Creation, Quick Wins, Define Summary	Tuesday April 23 10am – 12pm MT	Thursday April 25 11am – 12pm MT
<b>Session 5</b>	Measure	Process Mapping	Tuesday April 30 10am – 12pm MT	Thursday May 2 11am – 12pm MT
<b>Session 6</b>	Measure	Data Collection Plan, Basic Statistics, Graphical Analysis, Process Capability	Tuesday May 7 10am – 12pm MT	Thursday May 9 11am – 12pm MT
<b>Session 7</b>	Measure	Operational Definitions & KPI's	Tuesday May 21 10am – 12pm MT	Thursday May 23 11am – 12pm MT
<b>Session 8</b>	Measure	Measurement Systems Analysis	Tuesday May 28 10am – 12pm MT	Thursday May 30 11am – 12pm MT
<b>Session 9</b>	Measure	Quality Metrics, Critical to Quality Characteristics, Customer Quality Requirements, Cost of Poor Quality	Tuesday June 4 10am – 12pm MT	Thursday June 6 11am – 12pm MT
<b>Session 10</b>	Measure	Current State Summary, Quick Wins, Measure Summary	Tuesday June 11 10am – 12pm MT	Thursday June 13 11am – 12pm MT
<b>Session 11</b>	Analyze	8 Wastes, Value Analysis, Waste Walks	Tuesday June 18 10am – 12pm MT	Thursday June 20 11am – 12pm MT
<b>Session 12</b>	Analyze	Root Cause Analysis, 5 Why's, Fishbone Diagrams	Tuesday June 25 10am – 12pm MT	Thursday June 27 11am – 12pm MT

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<b>Session 13</b>	Analyze	Cause Mapping, Failure Modes & Effects Analysis	Tuesday July 2 10am – 12pm MT	Thursday July 4 11am – 12pm MT
<b>Session 14</b>	Analyze	Time & Motion Studies, Spaghetti Diagrams, Resource Maps	Tuesday July 9 10am – 12pm MT	Thursday July 11 11am – 12pm MT
<b>Session 15</b>	Analyze	Advanced Statistics, Design of Experiments, Hypothesis Testing, Analyze Summary	Tuesday July 16 10am – 12pm MT	Thursday July 18 11am – 12pm MT
<b>Session 16</b>	Improve	Creating the Future State, Merlin Method, Future State Process Mapping	Tuesday July 23 10am – 12pm MT	Thursday July 25 11am – 12pm MT
<b>Session 17</b>	Improve	SMED, 5S, Cell Design, Workload Balancing, Pull Systems, Takt Time and Cycle Time	Tuesday July 30 10am – 12pm MT	Thursday August 1 11am – 12pm MT
<b>Session 18</b>	Improve	Poka Yoke, Kanban, Lean Material Flow, Idea Brainstorming & Prioritization	Tuesday August 6 10am – 12pm MT	Thursday August 8 11am – 12pm MT
<b>Session 19</b>	Improve	Implementation, PDCA, Pilots, Action Register, Change Management, Design for Six Sigma	Tuesday August 13 10am – 12pm MT	Thursday August 15 11am – 12pm MT
<b>Session 20</b>	Improve	Future State Summary, Fulfilling the Future State, Improve Summary	Tuesday August 20 10am – 12pm MT	Thursday August 22 11am – 12pm MT
<b>Session 21</b>	Control	Process Sustainment	Tuesday August 27 10am – 12pm MT	Thursday August 29 11am – 12pm MT
<b>Session 22</b>	Control	Standard Work, Visual Management, MOS	Tuesday September 3 10am – 12pm MT	Thursday September 5 11am – 12pm MT
<b>Session 23</b>	Control	Process Dashboards, Control Plans, Process Monitoring	Tuesday September 10 10am – 12pm MT	Thursday September 12 11am – 12pm MT
<b>Session 24</b>	Control	Change Management, Process Documentation, Communication Plans, Training Plans, Control Summary	Tuesday September 17 10am – 12pm MT	Thursday September 19 11am – 12pm MT