# Lean Six Sigma Black Belt Course Comparison – LSSPro Vs Exemplar Global Vs TUV SUD Vs ASQ Vs IASSC Vs ISO Vs KPMG

| Topic | LEAN 6SIGMA PRO | ASQ | IASSC | TUV SUD | EXEMPLAR GLOBAL | ISO | KPMG |
|---|---|---|---|---|---|---|---|
| **Lean Management** | | | | | | | |
| 1.0 Introduction to Lean | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2.0 What is Lean & Application of Lean | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3.0 5S Before Lean | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.0 Types of Waste – (Videos &Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.1 Different Types of Wastes | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.2 Causes of Waste | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.3 Remedies of Waste | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 5.0 Lean Principles Introduction | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.1 Identify Customers & Specify Value | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.2 Value Stream Mapping | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.3 Create Flow | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.4 Respond to Pull | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.5 Pursuit Perfection | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.0 Identify Customers & Specify Value | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.1 Customer – Internal & External | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.2 Value Added & Non-Value Added (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.0 Create Value Stream Mapping (VSM) (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.1 Terminologies (CT, FTY, RTY, CO, TPT, WIP, WIQ) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.2 Process Efficiency | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.3 Customer Takt time | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.4 Create VSM (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

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| **Lean Management** | | | | | | | |
| 8.0 Create Value Stream Design (VSD) (Simulation to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 9.0 Create Flow & Respond to Pull (Simulation to Understand) | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| 9.1 Single Piece Flow (Simulation to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 9.2 Single Minute of Exchange of Dies (Simulation to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 9.3 Line Balancing (Simulation to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 9.4 Kanban (Pull Production) (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 9.5 Heijunka (Production Levelling) (Simulation to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 9.6 Just In Time (Simulation to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 10.0 Additional Lean Tools | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 10.1 Spaghetti Diagram | ✓ | ✓ | | | ✓ | ✓ | |
| 10.2 Circle Diagram | ✓ | ✓ | | | | | |
| 10.3 Total Productive Maintenance & OEE | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 10.4 Andon & Visual Management | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 10.5 Visual Factory | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 10.6 Gemba | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 10.7 Hoshin Kanri (Policy Deployment) | ✓ | ✓ | | | ✓ | ✓ | |
| 10.8 PDCA (Plan Do Check Act) | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 10.9 Poka-Yoke (Mistake Proofing) (Simulation to Understand) | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10.10 Root Cause Analysis | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 10.11 Standardized Work (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10.12 Theory of Constraints (Introduction) | ✓ | ✓ | | ✓ | | | |
| 10.13 Lean Enterprise | ✓ | | ✓ | | | | |
| 10.14 Lean value chain | ✓ | ✓ | | | | | |

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|---|:-:|:-:|:-:|:-:|:-:|:-:|:-:|
| **Six Sigma - Discovery** | | | | | | | |
| 1.0 Introduction to Quality | ✓ | | | ✓ | | | |
| 2.0 Quality Leaders (Juran, Deming, Shewhart, Ishikawa) (Videos to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 3.0 Cost of Quality (COQ) | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| 4.0 Cost of Poor Quality (COPQ) (Videos to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.0 Optimum Quality Levels | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| 6.0 Failure Mode & Effect Analysis (FMEA) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.1 Create Process FMEA (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.2 Create Design FMEA | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| 7.0 Key Performance Measures | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 7.1 Key Performance Indictors | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 7.2 Customer Satisfaction | ✓ | | | ✓ | ✓ | ✓ | |
| 7.3 Product Differentiation | ✓ | | | ✓ | ✓ | ✓ | |
| 7.4 Customer Loyalty Metrics | ✓ | ✓ | | | ✓ | ✓ | |
| 7.5 Leading & Lagging Indicators | ✓ | ✓ | | | ✓ | ✓ | |
| 7.6 Create Line of Sight | ✓ | ✓ | | | ✓ | ✓ | |
| 8.0 Key Business Drivers & their Impact | ✓ | ✓ | | ✓ | | | |
| 8.1 Profit/Margin (Practice to Understand) | ✓ | ✓ | | ✓ | | | |
| 8.2 Market Share | ✓ | ✓ | | ✓ | | | |
| 8.3 Net Present Value (NPV) | ✓ | ✓ | | | | | |
| 8.4 Cost Benefit Analysis (CBA) | ✓ | ✓ | ✓ | ✓ | | | |
| 8.5 Hard & Soft Benefits (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | | | |
| 8.6 Cost avoidance & Cost reduction (Practice to Understand) | ✓ | ✓ | | ✓ | | | |
| 9.0 Organization Goals & Six Sigma | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 10.0 Balanced Score Card& Six Sigma | ✓ | ✓ | | ✓ | ✓ | ✓ | |

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| **Six Sigma - Discovery** | | | | | | | |
| 11.0 History & Evolution of Six Sigma | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| 12.0 Continuous Improvement (KAIZEN) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.0 Basics of Six Sigma (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14.0 Six Sigma Applications | ✓ | ✓ | ✓ | | | | |
| 15.0 Types of Six Sigma Projects | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.1 DMAIC | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.2 DFSS (DMADV/IDOV) | ✓ | ✓ | | | | | |
| 16.0 Organization Road Blocks | ✓ | ✓ | | | ✓ | ✓ | |
| 16.1 Organization Structure & Culture | ✓ | ✓ | | | ✓ | ✓ | |
| 16.2 Common Causes of Six Sigma Failures | ✓ | ✓ | | | | | |
| 16.3 Stakeholder Analysis (Six Sigma Impact) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 17.0 Change Management (Simulation & Videos to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 17.1 Basics of Change Management | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 17.2 Readiness Assessment | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 17.3 Communication Plans to Overcome Barriers | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 18.0 Strategic Planning & Deployment | ✓ | ✓ | | | ✓ | ✓ | ✓ |
| 18.1 Importance of Lean Six Sigma | ✓ | ✓ | | | ✓ | ✓ | ✓ |
| 18.2 Hoshin Kanri (Policy Deployment) (Practice to Understand) | ✓ | ✓ | | | ✓ | ✓ | |
| 18.3 SWOT Analysis (Practice to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 18.4 PEST | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 18.5 Business Contingency Planning | ✓ | ✓ | | | ✓ | ✓ | |
| 18.6 Portfolio Analysis | ✓ | ✓ | | | ✓ | ✓ | |

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| **Six Sigma - Discovery** | | | | | | | |
| 19.0 Team Management (Simulation & Videos to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 19.1 Team Types & Constraints | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 19.2 Team Roles &Responsibilities | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 19.3 Team Member Selection Criteria | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 19.4 Team Success Factors | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 20.0 Project Team Dynamics (Simulation to Understand) | ✓ | ✓ | | ✓ | | | |
| 20.1 Forming | ✓ | ✓ | | ✓ | | | |
| 20.2 Storming | ✓ | ✓ | | ✓ | | | |
| 20.3 Norming | ✓ | ✓ | | ✓ | | | |
| 20.4 Performing | ✓ | ✓ | | ✓ | | | |
| 20.5 Adjourning | ✓ | ✓ | | | | | |
| 20.6 Group Thinking | ✓ | ✓ | | | | | |
| 20.7 Team Communication | ✓ | ✓ | | | ✓ | ✓ | |
| 20.8 Resolve negative dynamics - overbearing, dominant, or reluctant participants | ✓ | ✓ | | | | | |
| 20.9 The unquestioned acceptance of opinions as facts, groupthink, feuding, floundering, the rush to accomplishment, attribution, discounts, digressions, and tangents. | ✓ | ✓ | | | | | |
| 21.0 Team Facilitation | ✓ | ✓ | | | ✓ | ✓ | |
| 21.1 Motivational Technique | ✓ | ✓ | | | ✓ | ✓ | |
| 21.2 Team Stages & Development | ✓ | ✓ | | | ✓ | ✓ | |
| 21.3 Team Communication | ✓ | ✓ | | | ✓ | ✓ | |
| 21.4 Team Leadership & Models | ✓ | ✓ | | | ✓ | ✓ | |
| 22.0 Team Dynamics (Simulation & Videos to Understand) | ✓ | ✓ | | | ✓ | ✓ | |

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| **Six Sigma - Discovery** | | | | | | | |
| 22.1 Group Behavior | ✓ | ✓ | | | ✓ | ✓ | |
| 22.2 Meeting Management | ✓ | ✓ | | | ✓ | ✓ | |
| 22.3 Team Decision Making Methods | ✓ | ✓ | | | ✓ | ✓ | |
| 23.0 Team Training (Simulation to Understand) | ✓ | ✓ | | | | | |
| 23.1 Need Assessment | ✓ | ✓ | | | | | |
| 23.2 Delivery | ✓ | ✓ | | | | | |
| 23.3 Evaluation | ✓ | ✓ | | | | | |
| 24.0 Six Sigma project impact on customer, suppliers & other stakeholders | ✓ | ✓ | | | | | |

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| **Six Sigma - Define** | | | | | | | |
| 1.0 Voice of Customer & Business(Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1.1 Collect Customer & Business Voices | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1.2 Eliminate Vagueness & Ambiguity | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1.3 VOC Clarity Table | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2.0 Kano Model (Practice to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 3.0 Benchmarking | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 3.1 Competitive | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 3.2 Collaborative | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 3.3 Best Practices | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 4.0 Customer Requirements to Process Requirements | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

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| **Six Sigma - Define** | | | | | | | |
| 4.1 Critical to X (X-Quality, Cost, Safety or any other ) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.2 CTQ Drill Down | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.3 Quality Function Deployment (Practice to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 5.0 Project Section (Practice to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 6.0 Process Owners & Stakeholder Analysis | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.0 Project Charter (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.1 Business Case | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.2 Problem Statement | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.3 Project Goal Statement | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.4 Project Team | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.5 Project Timeline | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.6 Project Scope | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.7 Expected Benefits | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.0 Financial Evaluation | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 9.0 Develop Project Metrics | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 10.0 Project Short &Long Terms Gain (Practice to Understand) | ✓ | | | ✓ | ✓ | ✓ | |
| 11.0 Project Risk Analysis | ✓ | ✓ | | | ✓ | ✓ | |
| 12.0 Six Sigma Project Types | ✓ | ✓ | | | ✓ | ✓ | |
| 13.0 Project Roles & Responsibilities | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.1 Roles of Executive Leadership | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.2 Roles of Champion | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.3 Roles of Sponsor | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.4 Roles of Master Black Belt | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.5 Roles of Black Belt | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

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| **Six Sigma - Define** | | | | | | | |
| 13.6 Roles of Green Belt & Team | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14.0 Project Managements & Analytical tools | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 14.1 Gantt charts | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 14.2 Work Breakdown Structure | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 14.3 Critical Path Method (CPM) (Simulation to Understand) | ✓ | | | ✓ | ✓ | ✓ | |
| 14.4 Project Evaluation & Review Technique | ✓ | | | ✓ | ✓ | ✓ | |
| 14.5 RACI model | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 14.6 Activity Network Diagram | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 14.7 Tree Diagram | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 14.8 Matrix Diagram | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 14.9 Interrelationship Diagram | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 14.10 Process Decision Program Chart (PDPC) | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 14.11 Project Documentation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.0 Project Scope | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16.0 SIPOC & Process Mapping (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 17.0 Project Performance Measurement | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 17.1 Define Performance Measurement | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 17.2 Process Critical Elements | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 17.3 Key Outputs (CSAT, Revenue, Delivery, Schedule) | ✓ | ✓ | | | ✓ | ✓ | |
| 18.0 Project Tool Gate Review | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |

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| **Six Sigma - Measure** | | | | | | | |
| 1.0 Process Analysis & Documentation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1.1 Process Flow Charts | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1.2 Work Instructions & Gap Analysis | ✓ | ✓ | | | | | |
| 2.0 Types of Data & Measurement Scale (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2.1 Continuous (Variable) Data | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2.2 Discrete (Attribute) Data | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2.3 Nominal Data | ✓ | ✓ | | ✓ | | | ✓ |
| 2.4 Ordinal Data | ✓ | ✓ | | ✓ | | | ✓ |
| 2.5 Interval Measurement | ✓ | ✓ | | ✓ | | | ✓ |
| 2.6 Ratio Measurement | ✓ | ✓ | | ✓ | | | ✓ |
| 3.0 Population & Sampling | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3.1 Basics of Sampling | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3.2 Calculate Sample size(Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.0 Type of Samples(Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.1 Random Sample | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.2 Systematic Sample | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.3 Stratified Sample | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.0 Basics of Statistics (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.1 Central Tendency | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.2 Dispersion | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.3 Proportion | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.0 Introduction to Statistical Software (Minitab) | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| 6.1 Minitab Practice | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| 6.2 Descriptive Statistics | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

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| **Six Sigma  - Measure** | | | | | | | |
| 6.3 Inferential Statistics | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.0 Probability | ✓ | ✓ | | | | | |
| 7.1 Basic Concepts | ✓ | ✓ | | | | | |
| 7.2 Independence Events | ✓ | ✓ | | | | | |
| 7.3 Mutually Exclusive Events | ✓ | ✓ | | | | | |
| 7.4 Addition & Multiplication Rules | ✓ | ✓ | | | | | |
| 7.5 Complimentary Probability | ✓ | ✓ | | | | | |
| 7.6 Occurrence of events | ✓ | ✓ | | | | | |
| 8.0 Statistical Distributions (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.1 Normal | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.2 Binominal | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.3 Poisson | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.4 Chi-Square | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.5 Student's T | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.6 F distribution | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.7 Hypergeometric | ✓ | ✓ | | | | | |
| 8.8 Bivariate | ✓ | ✓ | | | | | |
| 8.9 Exponential | ✓ | ✓ | | | | | |
| 8.10 Lognormal | ✓ | ✓ | | | | | |
| 8.11 Weibull | ✓ | ✓ | | | ✓ | ✓ | |
| 9.0 Probability of Distributions (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | | | ✓ |
| 9.1 Frequency Distribution | ✓ | ✓ | ✓ | ✓ | | | ✓ |
| 9.2 Cumulative Frequency Distribution | ✓ | ✓ | ✓ | ✓ | | | ✓ |
| 9.3 Inverse Cumulative Frequency Distribution | ✓ | ✓ | ✓ | ✓ | | | ✓ |

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| **Six Sigma - Measure** | | | | | | | |
| 10.0 Central Limit Theorem (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | | | ✓ |
| 11.0 Measurement & Data Collection | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 11.1 What is Measurement | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| 11.2 Operation Definition | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| 12.0 Data Collection Plan (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12.1 Check Sheets | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12.2 Data Coding | ✓ | ✓ | | | ✓ | ✓ | |
| 12.3 Data Cleaning | ✓ | ✓ | | | ✓ | ✓ | |
| 12.4 Data Collection Pitfalls | ✓ | ✓ | | | ✓ | ✓ | |
| 12.5 Avoid Data Collection Pitfalls | ✓ | ✓ | | | ✓ | ✓ | |
| 12.6 Seasonality Effect on Data | ✓ | ✓ | | | ✓ | ✓ | |
| 12.7 Data Collectors Training | ✓ | ✓ | | | ✓ | ✓ | |
| 13.0 Graphical Analysis (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.1 Pareto | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.2 Scatter Plot (X - Y Plot) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.3 Box Plot | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.4 Histogram | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.5 Stem &Leaf Plots | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.6 Time Series Plot | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| 13.7 Run Chart | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| 13.8 Normality (using Minitab) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.9 Graphical Summary | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14.0 Metrology | ✓ | ✓ | | | | | |
| 14.1 Elements of Metrology | ✓ | ✓ | | | | | |

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| **Six Sigma - Measure** | | | | | | | |
| 14.2 Calibration System | ✓ | ✓ | | | | | |
| 14.3 Traceability &Reference Standards | ✓ | ✓ | | | | | |
| 14.4 Control & Integrity of Standards | ✓ | ✓ | | | | | |
| 15.0 Variations& Measurement System Analysis | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.1 Understanding Variations (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.2 Measurement System Analysis (MSA) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.2.1 Discrimination | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.2.2 Accuracy (includes Linearity & Bias) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.2.3 Precision | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.2.4 Stability | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.2.5 Percent Agreement | ✓ | ✓ | | | | | |
| 15.3 GRR for Continuous data (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.4 GRR for Discrete Data (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.5 Control Charts & Stability (Simulation to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16.0 Measurement Systems to | ✓ | ✓ | | | | | |
| 16.1 Sales & Marketing | ✓ | ✓ | | | | | |
| 16.2 Engineering | ✓ | ✓ | | | | | |
| 16.3 Supply chain & Management | ✓ | ✓ | | | | | |
| 16.4 Research & Development | ✓ | ✓ | | | | | |
| 16.5 Customer Satisfaction | ✓ | ✓ | | | | | |
| 17.0 Baseline Process Performance (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 17.1 Baseline Discrete Data (DPU, DPO,DPMO) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 17.2 Baseline Continuous Data (Cp, Cpk, Pp, Ppk, Cpm) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

# Lean Six Sigma Black Belt Course Comparison – LSSPro Vs Exemplar Global Vs TUV SUD Vs ASQ Vs IASSC Vs ISO Vs KPMG

| Topic | LEAN 6SIGMA PRO | ASQ | IASSC | TUV SUD | EXEMPLAR GLOBAL | ISO | KPMG |
|---|---|---|---|---|---|---|---|
| **Six Sigma - Measure** | | | | | | | |
| 17.3 Sigma Value (Short term & Long term) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 17.4 Sigma Shift (Short term Vs Long term) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 18.0 Process Capability in Detail (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18.1 Natural Process Limits & Specification Limits | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18.2 Design & Conducting Process Capability Studies | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18.3 Specifications, Sampling Plan, Stability & Normality | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18.4 Capability for Normal & Non-Normal Data | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18.5 Process Performance (PPM, DPU, DPMO) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18.6 Transformations (Box-Cox & Johnson transformation) | ✓ | ✓ | ✓ | ✓ | | | ✓ |
| 18.7 Capability for Discrete Data | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 19.0  Monitoring Techniques | ✓ | | ✓ | | | | |
| 20.0 Reliability - MTTF, MTBF | ✓ | | | | ✓ | ✓ | |

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|---|---|---|---|---|---|---|---|
| **Six Sigma - Analyze** | | | | | | | |
| 1.0 Identify Potential Causes (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1.1 Brain Storming | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 1.2 Affinity Diagram | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 1.3 Cause & Effect Diagram | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1.4 Five Whys? | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 2.0 Process Analysis | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2.1 Value Stream Mapping (Recap from Lean) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

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|---|:---:|:---:|:---:|:---:|:---:|:---:|:---:|
| **Six Sigma - Analyze** | | | | | | | |
| 3.0 Data Analysis | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.0 Normal Curve & Normality Test(Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.0 Confidence Interval, Risk & P value | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.0 Hypothesis Testing -Null & Alternate | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.1 Significance of Confidence Level | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.2 Significance of Power | ✓ | ✓ | | | ✓ | ✓ | |
| 6.3 Statistical & Practical Significance | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.4 Sample Size for Hypothesis Tests | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.5 Point & Interval Estimates | ✓ | ✓ | ✓ | ✓ | | | |
| 6.6 Contingency Tables | ✓ | ✓ | | | ✓ | ✓ | |
| 7.0 Alpha & Beta Risks (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.0 Hypothesis with Normal Data(Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.1 1 Sample T | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.2 2-Sample T | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.3 Paired T | ✓ | ✓ | | ✓ | | | ✓ |
| 8.4 One-Way Anova | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.5 Test of Variance | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 9.0 Hypothesis with Non- Normal Data(Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 9.1 1 Sample Sign | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 9.2 1 Sample Wilcoxon | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 9.3 Mann – Whitney | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 9.4 Kruskal- Wallis | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 9.5 Mood's Median | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| 9.6 Freidman Test | ✓ | | ✓ | | | | |

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|---|---|---|---|---|---|---|---|
| **Six Sigma - Analyze** | | | | | | | |
| 10.0 Hypothesis with Discrete Data (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10.1 1 Proportion | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10.2 2 Proportions | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10.3 Chi-Square | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10.4 Levene's Test | ✓ | | | | ✓ | ✓ | |
| 11.0 Multi-Vari Chart (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 12.0 Correlation & its Terminologies (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13.0 Correlation &Causation (Practice to Understand) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 14.0 Regression Analysis (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15.0 Linear & Non-Linear Regression (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16.0 Simple & Multi-Linear Regression (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 17.0 Residual Analysis (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | | | |
| 18.0 Multivariate Tools (Practice to Understand) | ✓ | ✓ | | ✓ | | | |
| 18.1 Factor Analysis | ✓ | ✓ | | | | | |
| 18.2 Item Analysis | ✓ | ✓ | | | | | |
| 18.3 Discriminant Analysis | ✓ | ✓ | | | | | |
| 18.4 Simple & Multiple Correspondence Analysis (MANOVA) | ✓ | ✓ | | | | | |
| 19.0 Design of Experiments (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 19.1 Need for DOE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20.0 Terminologies | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20.1 Factors, Levels, Response, Treatment | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | | | | |

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|---|---|---|---|---|---|---|---|
| **Six Sigma - Analyze** | | | | | | | |
| 20.2 Blocks, Randomization, Effects & Replication | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20.3 DOE Plots: Main Effect & Interaction Plots | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20.4 Confounding | ✓ | ✓ | ✓ | ✓ | | | |
| 21.0 DOE Designs | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 21.1 Full Factorial Experiments (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 21.2 Fractional Factorial (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 21.3 Latin Square Designs | ✓ | ✓ | | ✓ | | | |
| 21.4 Balanced & Orthogonal Arrays | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 21.5 Taguchi's Design | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 22.0 Force Field Analysis | ✓ | | | | ✓ | ✓ | |
| 23.0 Service Delivery Analysis | ✓ | | | | ✓ | ✓ | |

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|---|---|---|---|---|---|---|---|
| **Six Sigma - Improve** | | | | | | | |
| 1.0 Generate & Evaluate Ideas (Simulations to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1.1 Brain Storming | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 1.2 SCAMPER | ✓ | | | ✓ | | | |
| 1.3 Benchmarking | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 1.4 Lean Solutions | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1.5 TRIZ (Introduction) | ✓ | | | ✓ | | | ✓ |
| 2.0 Selecting Best Solution(Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2.1 Multi-Voting | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2.2 Pay-off Matrix | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| 2.3 Criteria Matrix | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3.0 Error Proofing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3.1 Prevention & Detection | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3.2 Mistake Proofing &Examples | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.0 Assess Risk FMEA (Recap) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.0 Piloting & Implementation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.1 Pilot Solutions | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.2 Pilot Location | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.3 Pilot Success Criteria | ✓ | | | ✓ | | | ✓ |
| 6.0 Implementation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.1 Plan for implementation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.2 Stakeholder Analysis | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.3 Communication Plan | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.4 Implementation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

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|---|---|---|---|---|---|---|---|
| **Six Sigma - Control** | | | | | | | |
| 1.0 What is Process Control? | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2.0 Different Types of Process controls | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3.0 Response Plan & Reaction Plan | ✓ | | ✓ | ✓ | | | ✓ |
| 4.0 Statistical Process Control (Practice to Understand) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.1 Monitoring, Controlling of Process Performance | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.2 Identify & Select Critical Process Parameters | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.3 Subgrouping & Rational Subgrouping | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.4 SPC- Continuous Data (I-MR, X bar R, X bar S, CUSUM, EWMA, Short Run) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4.5 SPC – Discrete Data (C,U,P,NP charts) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5.0 Analyze Control Charts | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.0 Control Plan | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.0 Visual Control | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.0 Sustain Improvements | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.1 Lesson Learnt | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.2 Documentation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.3 Trainings | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8.4 Ongoing Evaluation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 9.0 Benefit Computation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10.0 Project Closure | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 11.0 Celebration | ✓ | | | ✓ | | | |

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|---|---|---|---|---|---|---|---|
| **Six Sigma - DFSS** | | | | | | | |
| 1.0 Common DFSS/ DMADV Methodologies | ✓ | ✓ | | ✓ | | | |
| 1.1 Define | ✓ | ✓ | | ✓ | | | |
| 1.2 Measure | ✓ | ✓ | | ✓ | | | |
| 1.3 Analyze | ✓ | ✓ | | ✓ | | | |
| 1.4 Design | ✓ | ✓ | | ✓ | | | |
| 1.5 Validate | ✓ | ✓ | | ✓ | | | |
| 2.0 Design for X (DFX) | ✓ | ✓ | | | | | |
| 2.1 Design Constraints | ✓ | ✓ | | | | | |
| 2.2 Design Cost | ✓ | ✓ | | | | | |
| 2.3 Design for Manufacturability | ✓ | ✓ | | | | | |
| 2.4 Design for Test | ✓ | ✓ | | | | | |
| 2.5 Design for Maintainability | ✓ | ✓ | | | | | |
| 3.0 Robust Design | ✓ | ✓ | | | ✓ | ✓ | |
| 3.1 Robust Product Design | ✓ | ✓ | | | ✓ | ✓ | |
| 3.2 Tolerance for Design | ✓ | ✓ | | | ✓ | ✓ | |
| 3.3 Statistical Tolerancing | ✓ | ✓ | | | ✓ | ✓ | |
| 3.4 Robust Process Design | ✓ | ✓ | | | ✓ | ✓ | |