

About Lean Six Sigma

Lean and Six Sigma, together known as Lean Six Sigma, is a set of widely used Leadership and Management tools & techniques that have helped individuals and organisations across various industries around the world deliver significant improvement.

Lean Six Sigma focuses on delivering business and customer value, both in the short term (quarter-on-quarter growth) and in the long term (year-on-year growth). This is achieved through a proven and structured process of strategy development and strategy deployment.

Lean

Lean is a structured methodology that focuses on reducing non-value added activities that in turn reduces time to market, wastage, improves innovation, builds a culture of continuous improvement and most importantly delivers customer value.

Lean is typically used to deliver quick returns for customers and organisations; hence organisations use it to drive growth.

Six Sigma

Six Sigma is a structured methodology that helps to understand the customer's definition of value, create an organisational strategy, deploy the strategy, ensure consistent delivery in performance to customers, and at the same time deliver organisational outcomes.

Six Sigma is used to solve complex problems and achieve long term growth targets; hence organisations use it to develop leadership talent and also drive year-on-year growth.

The training for Lean Six Sigma is provided through a "belt based" training system similar to that of Six Sigma. The belt personnel are designated as White Belts, Yellow Belts, Green Belts, Black Belts and Master Black Belts.

Lean Six Sigma Certification Levels Hierarchy



Lean Six Sigma Training

A Joint Initiative between Lean Six Sigma International Board & Latitude 12

About Lean & Six Sigma International Board (LASSIB)

Lean and Six Sigma International Board is an international society focussed on providing education, pioneering and spreading the knowledge of Lean Six Sigma to the worldwide community.

It was formed after years of practical industry research and deliberations by like-minded industry leaders who believe in the value of Lean Six Sigma. The society has delivered 10,000+ certifications across 40+ countries, and hosts the Lean and Six Sigma International Conventions and Round Table Conferences.

The society has coached and certified employees in organisations that read like a who's who of international business including:

- Microsoft
- Ernst & Young
- PwC
- GE
- ADP
- HSBC
- Hyatt Regency
- Deloitte
- HP

About Latitude 12

Latitude 12 is a specialist managed business services provider setting the benchmark for best practice in remote and regional Australia.

With offices in Darwin and Brisbane, Latitude 12 is focused on delivering high quality, cost effective, value added solutions.

Latitude 12 has an experienced team of professionals, committed to understanding and delivering on our clients' needs. The trust we build with our clients is at the heart of everything we do.

We measure our successes by the growth and success of our clients.

We currently specialise in Financial Services & Payroll, Records Management & Archiving, Internal Audit & Risk Management, Workplace Health & Safety, and Lean Six Sigma Training & Consultancy.

The Benefits of Lean Six Sigma

For Organisations	For Individuals
<ul style="list-style-type: none">• Define and deliver sustained competitive advantage• Improve net profit margins• Create and deliver products that deliver optimum customer value• Improve cash-flows and revenues• Creating a culture of Innovation, and the delivery of Return on Investment (ROI) for the organisation and the customers	<ul style="list-style-type: none">• Build strategic leadership and managerial skills through the LASSIB QADE model<ul style="list-style-type: none">• Questioning• Analysis• Decision making• Execution• Become effective thinkers by leveraging the LASSIB 'EIF - IIF' thought leadership model

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Example Case Study

Oil & gas industry

Client Goals and Problems	Interventions and Changes Made	Client Outcomes
<ul style="list-style-type: none"> • Frequent fluctuation in Low Residue (LR) line • 61 times in 6 months duration • Every fluctuation costs \$10,000 • Every fluctuation had 2 hrs of down time • Required frequent manual intervention • Problem since 1993 	<ul style="list-style-type: none"> • Poka Yoke applied • Pressure variation in LR line needed no manual intervention • Response time of discharge valve recalibrated • Communication between two plants made effective 	<ul style="list-style-type: none"> • Pressure surge during the improvement phase: Zero • Cost benefit of close to \$1.3 million • Shop floor operators were interested to learn about various improvement tools and started with Kaizen events.

Highlights of Lean Six Sigma Improvements by Industry

Government & Local Government

- Reduction in database entry cycle time in inventory management by 60%.
- Savings of over 80% improvement in cycle time for small to mid scale contracting actions
- Significant savings annually in rework avoidance requiring unplanned labour and overtime, increasing quality outputs & customer service
- Streamlining social services application workflow
- Backlog of child support enforcement cases dropped from 7,281 to 103 in less than a year

Defence

- Recruitment process brought down to 11 steps from previous number of 32
- A one-stop equipment and clothing outlet for base Soldiers was able to reduce issue and turn-in times by 50% and its inventory by more than 65%. Installation officials expect 20% cost savings.
- 256 days repair time for an engine used in an aircraft, down to an average of 70. Tripled production.
- Arranging a battle rostered unit time reduced by 30 days to 3 days

Oil & Gas

- 26% increase in Hexane production
- Improvement in the reliability of hydraulic pumps by 34%
- Reduced turnaround time of tank filling by 18%

Information Technology

- Speed of requirements finalisation increased by 34%
- Increase in ROI delivered to the client to USD 2,072,000/- per quarter
- 48% reduction in errors caused during order processing for clients

Other Industries

- Net profit margin increase by 1.2% - 4.5% after management believed savings were already being maximised
- Reduced the cycle time for refunds from 25 Business days to 10 Business days using transactional Lean concepts and tools
- Reduced the cycle time for application of cash from an average of 5 days to 3 days using transactional Lean concepts. This also helped in reduction of unapplied cash by 75%

Lean Six Sigma Certification Levels Hierarchy

	For Whom	Covers	Objectives
White Belt Duration: 1 day	For those who want an introduction to the Lean principles and the Six Sigma methodology	<ul style="list-style-type: none"> • Overview of Lean Six Sigma • Provides Lean Six Sigma project ideas • Teaches 10+ Lean Six Sigma tools and techniques • Helps you play a participatory role in Lean Six Sigma projects 	<ul style="list-style-type: none"> • Help you understand how to leverage Lean Six Sigma methodology in the role of an improvement project team member and apply it in your own work environment
Yellow Belt Duration: 2 days	For those who are expected in improvement initiatives, and for those who want to get into the management stream	All the above, and: <ul style="list-style-type: none"> • Teaches 15+ additional Lean Six Sigma tools and techniques • Organisational Vision and Alignment • Delivering Customer Value • Introduction to Project Management • Introduction to Metrics management 	<ul style="list-style-type: none"> • Relate Lean Six Sigma concepts to the overall business vision, mission and objectives • Understand the customers definition of value, and define the optimum customer value to be delivered • Enable critical improvements in one's personal work profile and local work environment
Green Belt Duration: 5 days	For those who are expected to play an important role in improvement initiatives, and for those who want to enhance their managerial performance	All the above, and: <ul style="list-style-type: none"> • Strategy Development • Teaches over 35+ additional Lean and Six Sigma Tools and Techniques • Change Management • Skills to be future managers • Detailed Project Management • Detailed Metrics Management 	<ul style="list-style-type: none"> • Enable strategy development • Prioritize improvement initiatives • Equip attendees with tools and techniques which will help them deliver: <ul style="list-style-type: none"> • An estimated \$25,000/- worth of benefits, and / or • An estimated improvement of 10% in process performance, and / or • A process capability improvement of over 0.5 σ • Ensure sustenance of improvements
Black Belt Duration: 12 days	For those who are expected to play a crucial role in improvement initiatives, and for those who want to be seen as true and natural leaders organisation wide	All the above, and: <ul style="list-style-type: none"> • Teaches over 60+ additional Lean and Six Sigma Tools and Techniques • Skills to be future strategic leaders • Financial Analysis • Leading and managing multiple initiatives • Culture Management 	<ul style="list-style-type: none"> • Enable strategy development • Prioritize improvement initiatives • Equip attendees with tools and techniques which will help them deliver: <ul style="list-style-type: none"> • An estimated \$75,000/- worth of benefits, and / or • An estimated improvement of 30% in process performance, and / or • A process capability improvement of over 1.5 σ • Ensure improvements are sustained
Champion Training Duration: 2 days	For those who are accountable for <ul style="list-style-type: none"> • Strategy Development and Deployment • Top line and Bottom-line growth 	<ul style="list-style-type: none"> • Strategy Development that ensures Sustained Competitive Advantage • Initiative Prioritisation • Leadership Development and Team Selection • Removal of roadblocks • Project monitoring and oversight • Leveraging Lean Six Sigma to deliver Strategic Business Value 	<ul style="list-style-type: none"> • An overview of Lean and Six Sigma and how it delivers strategic business benefits • Creation of a strategy with a clear purpose of enabling sustained competitive advantage • Transformation of the quality function into a business excellence function • Identifying Initiatives that truly deliver customer value and business value • Creating an innovation culture, and the delivery of Return on Investment (ROI) for the organisation and the customers