

## LEAN SIX SIGMA YELLOW BELT CERTIFICATION TRAINING



### COURSE LENGTH: 3.0 DAYS

Lean Six Sigma (LSS) Yellow Belt Certification Training course is a comprehensive training and exam preparation course to qualify you for Yellow Belt Certification with the International Association of Six Sigma Certification (IASSC). This is the first recognised level of Six Sigma Training.

From this course, you will learn: the LSS concept, the tactical and strategic aspects of LSS, process capability, how to Define, Measure, Analyse, Improve, and Control (DMAIC) processes, how to reduce waste, the effective quality management system and much more based on the IASSC training materials used by thousands to train Lean Six Sigma Yellow Belts worldwide.

This comprehensive course is now available in London, Birmingham, Leeds, Glasgow, Sheffield, Bradford, Edinburgh, Liverpool, Manchester and UK wide.

Please click the In-House Training tab to receive a free quote for courses delivered at your preferred location.

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## LEAN SIX SIGMA YELLOW BELT CERTIFICATION TRAINING COURSE OUTLINE

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### FOREWORD

The PD Training materials are much more than simple tools training. This curriculum is formatted in such a way that the problem solving strategy is demonstrated throughout the course. By utilizing various Statistical and Business Improvement tools participants can clearly see and communicate the flow and process of the methodology in order to instill both the tactical and strategic aspects of the LSS Yellow Belt skill set.

The implementation roadmaps within each phase provide a clear line-of-sight for putting into practice the problem solving technology. Various group exercises utilizing training aids, pre-formatted data sets and templates facilitate interactive group learning within a class.

These very training materials are the industry standard used by thousands of industry trainers, coaches and mentors to train Lean Six Sigma Yellow Belts around the world.

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### OUTCOMES

#### During this course, you will develop:

- ▶ Complete understanding of Six Sigma
  - ▶ Ability to improve processes for enhanced product quality
  - ▶ Understanding of the tactical and strategic aspects of Lean Six Sigma
  - ▶ Understanding of process capability
  - ▶ Skill to Define, Measure, Analyse, Improve and Control (DMAIC) processes
  - ▶ Understanding of process discovery
  - ▶ An accurate system of predicting outcomes, measurable and quantifiable
  - ▶ Clear understanding of goals
  - ▶ A highly effective methodology to improve processes drastically
  - ▶ Methods to minimise variability in processes
  - ▶ Capability to maximise production by fully utilising the potential of processes
  - ▶ Ability to reduce waste through the identification and removal of present and potential errors
  - ▶ Control over defects for their effective prevention
  - ▶ Means to build strong managers and leaders
  - ▶ A highly effective quality management system
  - ▶ Smoother, faster and error-free processes
  - ▶ Effective means to drastically increase savings through reduction in waste and improvement in processes
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### MODULES

### Lesson 1: Understanding Six Sigma (Define Phase Module 1)

Yellow Belt Define Phase - The Define Phase of the DMAIC methodology is constructed to introduce the fundamentals of Lean Six Sigma.

- ▶ Deliverables
- ▶ Describe the objectives of Six Sigma
- ▶ Describe the relationship between variation and sigma
- ▶ Recognise some Six Sigma concepts
- ▶ Recognise the Six Sigma implementation model
- ▶ Describe your role and responsibilities in Six Sigma

### Lesson 3: Selecting Projects (Define Phase Module 3)

- ▶ Deliverables
- ▶ Utilise a structured approach to select projects
- ▶ Refine and Define the problem into a Project Charter
- ▶ Make an initial estimate of your project's benefits

### Lesson 5: Wrap Up & Action Items (Define Phase)

### Lesson 7: Six Sigma Statistics (Measure Phase Module 2)

- ▶ Deliverables
- ▶ Explain the various statistics used to express location and spread of data
- ▶ Describe the characteristics of a Normal Distribution
- ▶ Test for Normality
- ▶ Describe the difference between Special Cause and Common Cause Variation
- ▶ Generate a variety of graphs for data

### Lesson 9: Process Capability (Measure Phase Module 4)

- ▶ Deliverables
- ▶ Estimate Capability for Continuous Data
- ▶ Describe the impact of Non-normal Data on the analysis presented in this module for Continuous Capability
- ▶ Estimate Capability for Attribute Data

### Lesson 2: Six Sigma Fundamentals (Define Phase Module 2)

- ▶ Deliverables
- ▶ Describe what is meant by "Process Focus"
- ▶ Describe the importance of VOC, VOB, and VOE, and CTQ's
- ▶ Explain COPQ
- ▶ Generate a Process Map
- ▶ Describe the Basic Six Sigma metrics
- ▶ Explain the difference between FTY and RTY
- ▶ Explain the difference between DPU and DPMO

### Lesson 4: Elements of Waste (Define Phase Module 4)

- ▶ Deliverables
- ▶ Have a clear understanding of the specific deliverables
- ▶ Have started to develop a Project Plan to meet the deliverables
- ▶ Have identified ways to deal with potential roadblocks
- ▶ Be ready to apply the Six Sigma method through your project

### Lesson 6: Process Discovery (Measure Phase Module 1)

LSS Yellow Belt Measure Phase - The Measure Phase of the DMAIC methodology is constructed to introduce important Six Sigma tools for characterising your business issues.

- ▶ Deliverables
- ▶ Create a high level Process Map
- ▶ Create a Fishbone Diagram
- ▶ Create an X-Y Diagram
- ▶ Describe the elements of a FMEA
- ▶ Explain the importance of a FMEA
- ▶ Describe why each tool is important

### Lesson 8: Measurement System Analysis (Measure Phase Module 3)

- ▶ Deliverables
- ▶ Perform the step by step methodology in Variable and Attribute MSA's
- ▶ Identify the various components of variation so corrections can be made and the gage error reduced
- ▶ Recognise the differences between Repeatability, Reproducibility, Accuracy and Calibration

### Lesson 10: Wrap Up & Action Items (Measure Phase)

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### Lesson 11: Welcome to Control (Control Phase Module 1)

LSS Yellow Belt Control Phase - The Control Phase of the DMAIC methodology is constructed to introduce important Lean Six Sigma tools for properly controlling solutions.

- ▶ Lean Controls
- ▶ Deliverables
- ▶ Describe Lean tools
- ▶ Understand how these tools can help with project sustainability
- ▶ Understand how the Lean tools depends on each other
- ▶ Understand how tools must document the defect prevention created in the Control Phase

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### Lesson 12: Defect Controls (Control Phase Module 2)

- ▶ Deliverables
- ▶ Describe some methods of defect prevention
- ▶ Understand how these techniques can help with project sustainability
- ▶ Including reducing those outliers as seen in the Advanced Process Capability section
- ▶ If the vital X was identified, prevent the cause of defective Y
- ▶ Understand what tools must document the defect prevention created in the Control Phase

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### Lesson 13: Six Sigma Control Plans (Control Phase Module 3)

- ▶ Deliverables
- ▶ Understand the 5 phases of the Control Plan
- ▶ Training
- ▶ Documentation
- ▶ Monitoring
- ▶ Response
- ▶ Aligning Systems and Structures

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### Lesson 14: Wrap Up & Action Items (Control Phase)

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## WEB LINKS

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- ▶ [View this course online](#)