

LEAN SIX SIGMA YELLOW BELT CERTIFICATION TRAINING

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COURSE LENGTH: 3.0 DAYS

Prepare to qualify for Lean Six Sigma Yellow Belt Certification with the International Association of Six Sigma Certification (IASSC) by attending PD Training's comprehensive training and exam preparation course. This is the first recognized level of LSS certification.

After completing this course, based on IASSC authorized training materials, you will have learned: the LSS concept, how to minimize process variability, how to Define, Measure, Analyze, Improve, and Control (DMAIC) processes, how to reduce waste, the effective quality management system, what is process capability and much more

This comprehensive training course is available across the U.S., including Atlanta, Austin, Baltimore, Birmingham, Boston, Charlotte, Chicago, Dallas, Houston, Jackson, Los Angeles, Manhattan, Miami, New York, Orlando, Philadelphia, San Antonio and Seattle.

LEAN SIX SIGMA YELLOW BELT CERTIFICATION TRAINING COURSE OUTLINE

FOREWORD

The PD Training course is much more than a trainer simply telling you information. This curriculum is formatted in such a way that the problem solving strategy is demonstrated throughout the course. By utilizing the 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 the course.

These IASSC authorized 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.

OUTCOMES

During this course, you will:

- ▶ Develop a complete understanding of Lean Six Sigma
- ▶ Learn how to improve processes for enhanced product quality
- ▶ Understand the tactical and strategic aspects of Lean Six Sigma
- ▶ Develop techniques to drive CI through each of the primary process LSS stages: Define, Measure, Analyze, Improve and Control
- ▶ Learn an accurate system to predict outcomes, that are measurable and quantifiable
- ▶ Define and drive toward tangible goals
- ▶ Develop methodology to drastically improve processes
- ▶ Understand how to minimize variability in processes
- ▶ Learn how to maximize production by fully utilizing the potential of processes
- ▶ Acquire techniques to reduce waste through the identification & removal of present & potential errors
- ▶ Learn how to take control over defects effectively reduce or prevent future defects Learn how realize smoother, faster and error-free processes
- ▶ Contribute to project that increase savings through reduction in waste & improvement in processes

This **Lean Six Sigma Yellow Belt Certification** training course has been designed to build your knowledge and capability to improve the performance of processes and subsequently the performance of the business of which you are a part. The focus of the course is process centric.

By taking this course you will have a well rounded and firm grasp of many of the tools of these methodologies. We firmly believe this is one of the most effective classes you will ever take and it is our commitment to provide you that value.

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)

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

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

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

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

WEB LINKS

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- ▶ [View this course online](#)
 - ▶ [In-house Training Instant Quote](#)