

## Lean Six Sigma Yellow Belt



### Program Overview

The Lean Six Sigma Yellow Belt training is designed to provide delegates with an entry level understanding of Lean Six Sigma methods and prepare them to participate, as contributors, to Lean Six Sigma projects. Yellow Belts are not experts in the methodology, but understand the activities, deliverables and key concepts of team problem solving.

Lean Six Sigma first emphasizes the use of Lean methodologies and tools to identify and remove waste and increase process velocity, then follows that with the use of Six Sigma methodologies and tools to identify and reduce or remove process variation. As a Yellow Belt you will have a good introduction to the Six Sigma theory and be able to contribute to projects within your organization. Play your part in achieving operational and transactional improvements to save time and money and boost customer service delivery.

This interactive course will explore how Lean Six Sigma methodology can help your organization solve both technical and human challenges of sustainable projects and will improve the project management processes and mindsets alike. We will explore the lean six sigma through a series of dynamic presentations, cutting edge videos, exciting group activities, and real-world applicable case studies.



**The iIET has successfully met the requirements set forth by the International Association for Six Sigma Certification (IASSC) for the designation of an Accredited Training Organization. This accreditation publically reflects that the iIET has met the standards established by IASSC such that those who participate in a training program led iIET can expect to receive an acceptable level of knowledge transfer consistent with the Lean Six Sigma belt Bodies of Knowledge as established by IASSC.**

## Key Takeaways



1. Be confident that your DMAIC and problem solving projects are effective



2. Ensure that the project proceeds effectively through all the essential phases, from concept through to completion.



3. Improve efficiency, save time, cut costs and boost customer satisfaction



4. Encourage professional development and motivate employees

**\*Successful completion of the course materials, and exam makes you a Lean Six Sigma Yellow Belt. You can use this designation on your resume and business card. Having this designation can help you stand out from the competition. Studies have shown that those who have completed a Lean Six Sigma training and certification can increase their earning potential as well as be better able to attain their career goals.**



## Why People Choose to learn with the iIET...

Our unique approach brings together...

- latest case studies from the worlds top companies
- most cutting-edge multimedia available



Our course content is designed to fit every learning style and support the non-English speaking audience.

## Who Should Attend This Program

- Project Managers
- Non-operational Business Owners / Managing Directors
- Operations Directors
- Operations Managers
- Operations Leads / Supervisors
- Customer Service Heads
- HR Directors
- HR Managers
- Professionals and managers with management responsibilities in operations

## Course Requirements

Delegates must meet the following criteria to be eligible for certificate of completion:

- 1. Attendance** – delegates must attend all sessions of the course. Delegates who miss more than two hours of the course sessions will not be eligible to sit for the Lean Six Sigma Examination.
- 2. Successful completion of the course work and exam** – Upon completion of this training course you will receive your certificate and Lean Six Sigma Yellow Belt designation, which has been fully accredited by the **International Association for Six Sigma Certification (IASSC)**

## -Topics That Will Be Covered-

### Introduction

- The Basics of Six Sigma
- Meanings of Six Sigma
- General History of Six Sigma & Continuous Improvement
- Deliverables of a Lean Six Sigma Project
- The Problem Solving Strategy  $Y = f(x)$
- Voice of the Customer, Business and Employee
- Six Sigma Roles & Responsibilities

### The Fundamentals of Six Sigma

- Defining a Process
- Critical to Quality Characteristics (CTQ's)
- Cost of Poor Quality (COPQ)
- Pareto Analysis (80:20 rule)
- Basic Six Sigma Metrics: including DPU, DPMO, FTY, RTY Cycle Time

### Selecting Lean Six Sigma Projects

- Building a Business Case & Project Charter
- Developing Project Metrics
- Financial Evaluation & Benefits Capture

### The Lean Enterprise

- Understanding Lean
- The History of Lean
- Lean & Six Sigma
- The Seven Elements of Wastes: Overproduction, Correction, Inventory, Motion, Overprocessing, Conveyance, Waiting.
- 5S: Straighten, Shine, Standardize, Self-Discipline, Sort

### Measure Phase

- Process Definition
- Cause & Effect / Fishbone Diagrams
- Process Mapping, SIPOC, Value Stream

### Map

- X-Y Diagram
- Failure Modes & Effects Analysis (FMEA)

### Six Sigma Statistics

- Basic Statistics
- Descriptive Statistics
- Normal Distributions & Normality
- Graphical Analysis

### Measurement System Analysis

- Precision & Accuracy
- Bias, Linearity & Stability
- Gage Repeatability & Reproducibility
- Variable & Attribute MSA

### Process Capability

- Capability Analysis
- Concept of Stability
- Attribute & Discrete Capability
- Monitoring Techniques

### Control Phase

- Lean Controls
- Control Methods for 5S
- Kanban
- Poka-Yoke (Mistake Proofing)

### Six Sigma Control Plans

- Cost Benefit Analysis
- Elements of the Control Plan
- Elements of the Response Plan