

Growth Up Consulting & Training Center



CERTIFIED LEAN SIX SIGMA YELLOW BELT

(CLSSYB)

BODY OF KNOWLEDGE

2021



The **Lean Six Sigma Yellow Belt** Certification will be aimed at those new to the world of Six Sigma who have a small role, interest, or need to develop foundational knowledge. Yellow Belts can be entry-level employees who seek to improve their world or executive champions who require an overview of Six Sigma and DMAIC.

During the course you will learn

UNIT 1: INTRODUCTION TO SIX SIGMA

CHAPTER 1: WHAT IS SIX SIGMA?

- What is six sigma?
- Decision making without Vs with six sigma
- Calculation of sigma level
- Common Six Sigma Principles
- Challenges of Six Sigma

CHAPTER 2: SIX SIGMA HISTORY AND APPLICATION

- The Development of Statistical Process Control
- Continuous Process Improvement: Toyota and Lean
- Motorola's Focus on Defects
- ABB, Allied Signal, and General Electric
- Continued Growth of Six Sigma
- Applying Six Sigma Knowledge

CHAPTER 3: OTHER PROCESS IMPROVEMENT AND QUALITY METHODS

- Other Formal Quality or Process Improvement Programs
- When to Use Six Sigma

CHAPTER 4: LEAN CONCEPTS

The Seven Muda

Other Forms of Waste

Two Types of Muda

5S

Just-in-Time Manufacturing

CHAPTER 5: BASIC SIX SIGMA CONCEPTS

Standard Deviation

The Pareto Principle

Voice of the Customer

Basic Metrics

CHAPTER 6: APPROACHING THE PROBLEM

Problem Functions: $y = f(x)$

The 5 Whys

Creating a Problem Statement

UNIT 2: PROJECTS AND PROCESSES

CHAPTER 7: WHAT IS A PROCESS?

What is a Process?

Major Process Components

Process Owners

Data

Defining Process Components: The SIPOC

Tips for a SIPOC Brainstorming Session

Sample SIPOC Diagrams

CHAPTER 8: QUALITY

Critical to Quality Characteristics

The CoQ and the CoPQ

Quality is Critical to Success

CHAPTER 9: SELECTING THE RIGHT PROJECTS

Juggling the Right Amount of Projects

Enterprise-Level Selection Process

See for Yourself

CHAPTER 10: BASIC SIX SIGMA TEAM MANAGEMENT

Building a Six Sigma Team

Timelines, Scheduling, and Milestones

Budgets

CHAPTER 11: INTRODUCTION TO DMAIC AND DMADV

DMAIC versus DMADV

Define

Measure

Analyze

Improve

Control

Design

Verify

Breaking up the Elephant