



CERTIFICATION SYLLABUS

Certified Lean Six Sigma Yellow Belt

Exam Code: CLYB™



A complete preparation guide covering exam objectives, core competencies, domain weightage, and topics to prepare.

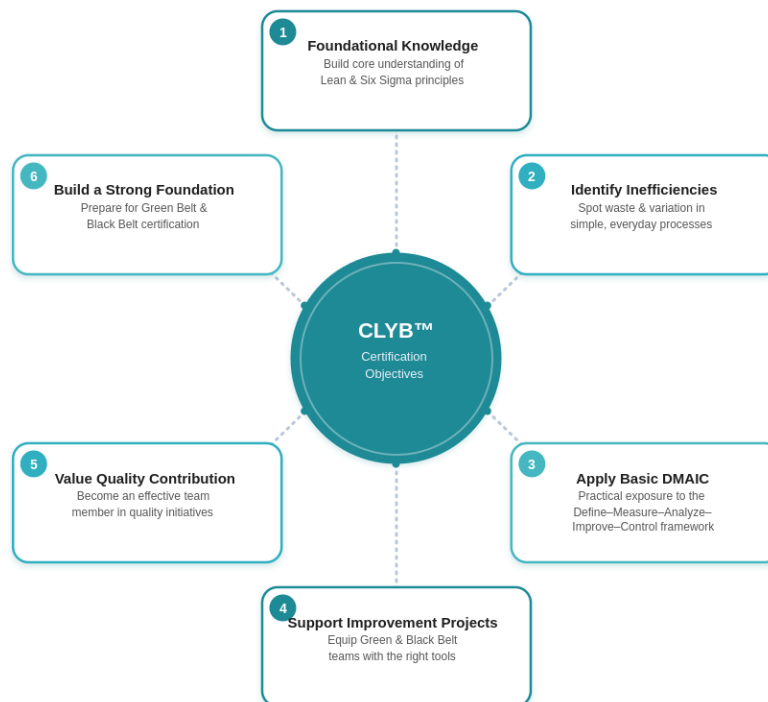
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Objective of the Certification

- To equip participants with foundational knowledge of Lean and Six Sigma principles for application in everyday work processes.
- To build competency in identifying inefficiencies, waste, and variation within simple, well-defined processes.
- To familiarize candidates with the DMAIC (Define-Measure-Analyze-Improve-Control) framework at a practical, entry-level.
- To prepare individuals to actively support and contribute to Green Belt and Black Belt-led improvement projects.
- To instill a continuous improvement mindset aligned with globally recognized Lean Six Sigma standards.
- To create a strong foundation for progression toward Green Belt and Black Belt certifications.

Objectives of the CLYB™ Certification



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Core Competencies

These competencies define what a certified Yellow Belt should be able to apply after completing this certification.

1. Foundational Knowledge

- Explain the origin, purpose, and value of Lean and Six Sigma methodologies.
- Identify the roles and responsibilities across the belt hierarchy (Yellow, Green, Black, Master Black Belt).

2. Process Improvement Application (DMAIC)

- Understand and describe the five phases of DMAIC (Define, Measure, Analyze, Improve, Control).
- Support a DMAIC project by contributing to problem definition, data collection, and monitoring activities.
- Recognize what “success” looks like at each phase of a project.

3. Waste & Efficiency Identification

- Identify the 8 wastes (DOWNTIME) in a simple, everyday process.
- Apply 5S principles to organize and standardize a workspace or workflow.
- Distinguish between value-added and non-value-added activities.

4. Basic Quality & Variation Awareness

- Understand the concepts of defects, variation, and process capability at a conceptual level.
- Recognize the importance of Voice of the Customer (VOC) and Critical to Quality (CTQ) factors.
- Explain, in simple terms, why reducing variation improves consistency and quality.

5. Problem-Solving & Root Cause Tools

- Create or interpret a basic process map or flowchart.
- Apply simple root cause tools such as 5 Whys and Fishbone (Ishikawa) diagrams.
- Use a Pareto chart to identify the most significant contributors to a problem.

6. Team Collaboration & Continuous Improvement Mindset

- Actively contribute as a team member in quality and process improvement initiatives.
- Demonstrate a Kaizen mindset — supporting incremental, continuous improvement in daily work.
- Communicate observations and inefficiencies effectively to Green Belt/Black Belt project leads.

Who Should Take This Certification

- Entry-level to mid-level employees involved in operational, production, or administrative processes.
- Team members who support quality initiatives but are not leading full-scale improvement projects.
- Professionals in manufacturing, healthcare, IT, BPO, banking, and service industries seeking process-awareness skills.
- Fresh graduates or early-career professionals wanting a credential that signals process-thinking ability.
- Individuals preparing to pursue Green Belt/Black Belt certifications later.
- Supervisors, team leads, and process associates who work closely with Green/Black Belt project teams.

Exam Information

Exam Name	Lean Six Sigma Yellow Belt
Exam Code	CLYB™
Exam Format	Multiple Choice Questions (MCQ)
Duration	120 minutes
Number of Questions	75
Passing Score	70%
Mode of Exam	Test Center Based Testing / Online Testing
Language	English
Validity	Lifetime
Open Book	No

Examination Domain & Weightage

The 75 questions are distributed across the following knowledge domains, weighted toward foundational and practical understanding appropriate for the Yellow Belt level.

Domain	Weightage
Introduction to Lean Six Sigma	~10.7%
DMAIC Methodology	~29.3%
Lean Principles	~22.7%
Basic Six Sigma Concepts	~17.3%
Process Mapping & Problem Identification	~16.0%
Team Roles & Continuous Improvement Culture	~4.0%
Total	100%

Topics to Prepare

The topics below represent the core areas candidates should focus on for each domain. This syllabus is intended as a preparation guide and does not include advanced statistical tools, which are covered in Green Belt and Black Belt certifications.

1. Introduction to Lean Six Sigma

History, purpose, belt hierarchy — Weightage: ~10.7%

- Origin of Lean (Toyota Production System) and Six Sigma (Motorola, popularized by GE)
- Purpose and objective of combining Lean and Six Sigma
- Belt hierarchy: White, Yellow, Green, Black, and Master Black Belt
- General scope and level of responsibility at each belt level

2. DMAIC Methodology

Basic understanding of each phase — Weightage: ~29.3%

- Define: problem statement, project charter, project scope, Voice of the Customer (VOC)
- Measure: baseline data collection, basic process mapping
- Analyze: root cause identification
- Improve: solution development and piloting
- Control: control plans, SOPs, sustaining improvements
- Sequence, purpose, and key deliverables of each DMAIC phase

3. Lean Principles

Waste elimination, 8 wastes, 5S, value vs. non-value-add — Weightage: ~22.7%

- Concept of waste elimination and process flow
- The 8 wastes (DOWNTIME): Defects, Overproduction, Waiting, Non-utilized talent, Transportation, Inventory, Motion, Extra-processing
- 5S methodology: Sort, Set in order, Shine, Standardize, Sustain
- Value-added vs. non-value-added activities
- Basics of Value Stream Mapping and process flow

4. Basic Six Sigma Concepts

Variation, defects, process capability (conceptual) — Weightage: ~17.3%

- Concept of process variation and defects
- Voice of the Customer (VOC) and Critical to Quality (CTQ) characteristics
- Process capability — conceptual understanding (no formulas/statistics)
- Basic $Y = f(X)$ concept (output vs. input factors)

- Why reducing variation and defects improves quality and cost

5. Process Mapping & Problem Identification

Flowcharts, 5 Whys, fishbone — Weightage: ~16.0%

- Basics of process mapping and flowcharts
- SIPOC diagram (Suppliers, Inputs, Process, Outputs, Customers)
- Root cause tools: 5 Whys and Fishbone (Ishikawa) diagram
- Pareto chart and the 80/20 rule
- Identifying bottlenecks and inefficiencies
- Current state vs. future state process mapping

6. Team Roles & Continuous Improvement Culture

Yellow/Green/Black Belt roles, Kaizen mindset — Weightage: ~4.0%

- Roles and responsibilities of Yellow Belt, Green Belt, Black Belt, and Master Black Belt
- Kaizen the philosophy of continuous, incremental improvement
- Employee involvement in quality initiatives and continuous improvement culture