

**Six Sigma Yellow Belt**

**Course Number:** SIX-102
**Duration:** 3 days

**Overview**

This live online or in-person Lean Six Sigma Yellow Belt training course takes attendees from White Belt to Yellow Belt and teaches them the Define, Measure, and Control phases of the Six Sigma methodology and goes beyond the basics of Six Sigma. This course also prepares learners for the [Certified Lean Six Sigma Yellow Belt exam](https://www.sixsigmacouncil.org/lean-six-sigma-yellow-belt-certification/).

**Prerequisites**

No prior experiences in presumed.

**Materials**

All Six Sigma training students receive comprehensive courseware.

**Software Needed on Each Student PC**

Each student must have productivity software such as MS Excel, Word, and PowerPoint.

**Objectives**

* Understand process management
* Learn the phases of Six Sigma
* Gain an in-depth understanding of the team-based Six Sigma tools utilized to prioritize the inputs of the process (process maps, C&E Matrix, FMEA)

**Outline**

* Introduction
* Lean Six Sigma Overview  (White Belt)
	+ A brief history of both Lean and Six Sigma process improvement methodologies
	+ The process improvement structure
	+ The DMAIC roadmap
	+ Inefficiency and ineffectiveness of processes that are linked to the Lean Six Sigma methodology
* Defining Phase and Project Selection (White Belt)
	+ Definition, scoping, and selection
	+ Defining projects
	+ Defining the problem
		- The process associated with the problem
		- Metrics for measuring success
		- The business value of the project
* Six Sigma Organizational Deployment (White Belt)
	+ Defining a support structure with various roles and responsibilities
		- The attributes of the various roles
		- Expectations of each role
		- Success factors for effectively completing meaningful projects
* Process Variables Mapping (Yellow Belt)
	+ Establishing the existing process flow and the steps involved in the process
	+ The contributing factors to the process performance
	+ Determining the root cause of the variability in the baseline process
	+ Not a standard “flowchart”
* Cause and Effects Matrix (Yellow Belt)
	+ Establishing the factors to address based on their relationships to the process performance measures
* Failure Mode and Effects Analysis (FMEA) (Yellow Belt)
	+ An in-depth view of the top-ranked factors to determine if they are susceptible to failure
	+ Establishing high-risk environments
	+ Mitigating the risk of failure
* Types of Waste (Yellow Belt)
	+ Various types of waste
	+ How to identify wastes
	+ Methods that can be taken to reduce waste
* Basic Statistics (Yellow Belt)
	+ Using statistical approaches to solve the underlying performance problems
	+ Methods for describing data statistically
		- Shape, center, and spread of the data distribution
	+ Normal distribution properties
* Introduction to Statistical Software functions (Yellow Belt)
	+ Basic functions, structure, and capabilities
* Conclusion