

Lean Six Sigma Yellow Belt (16 hours)

The Lean Six Sigma Yellow Belt online training course provides the students the skills to improve quality and reduce defects and eliminate waste within their organization. This course provides students with the knowledge in locating, controlling and watching out for possible monetary loss in any area of the company.

Exam: CSSC Six Sigma Yellow Belt Certification Exam

Who Should Attend

- Engineers
- Operations
- Quality Engineers
- Project Managers
- Continuous Improvement Specialists
- Architects and managers
- Team Leader

Course Outline

What is Six Sigma?

Data driven processes
Defining Six Sigma
Common principles
Challenges of Six Sigma

Six Sigma history and application

The development of statistical process control
Continuous improvements
Continued growth of Six Sigma
Applying Six Sigma knowledge

Other process improvement and quality methods

Formal quality and process improvement
When to use Six Sigma

Lean Concepts

- The 7 Muda
- Other forms of waste
- Two type of Muda
- 5S
- Just-in-time manufacturing

Basic Six Sigma concepts

- Standard deviation
- The Pareto principle
- Voice of the customer
- Basic metrics

Approaching a problem

- Problem functions: $y=f(x)$
- The 5 whys
- Creating a problem statement

What is a process

- Major process components
- Process owners
- Data reviews
- Defining process components: SIPOC (suppliers, inputs, process, outputs, and customers)

Quality Management

- Critical to quality characteristics
- CoQ (Cost of quality) and CoPC (Customer Operations Performance Centre)

Selecting the right projects

- Enterprise level project selection
- Project charter creation
- Building a Six Sigma team
- Timeline creations, scheduling and milestones
- Budget creation

Introduction to DMAIC and DMADV

- Define
- Measure
- Analyze
- Improve
- Control
- Design
- Verify