

# **IASSC® Certified Lean Six Sigma Green Belt™**

**Course Duration: 40 Hours (5 Days)**

## **Overview**

The Lean Six Sigma Green Belt course is a comprehensive training program designed to equip learners with the tools and methodologies needed to enhance process improvement in their organizations. It merges the lean principles that focus on reducing waste and increasing efficiency, with the Six Sigma methodology that aims to reduce defects and variability in processes. The course is structured into five modules, each representing a phase in the Six Sigma DMAIC (Define, Measure, Analyse, Improve, Control) framework. Through the lessons in each phase, participants will gain a deep understanding of Six Sigma, from selecting the right projects to statistical analysis and maintaining improvements. With lean green belt training, learners will become proficient at identifying elements of waste, understanding Six Sigma statistics, conducting hypothesis testing, designing experiments, and implementing control plans. The green belt training will empower individuals to lead successful process improvement projects and drive quality advancement in their work environments, making them valuable assets to their organizations

## **Audience Profile**

The Lean Six Sigma Green Belt course is designed for professionals seeking to improve business processes and quality management

- Quality Assurance Managers
- Operations Managers
- Production Managers
- Process Improvement Consultants
- Project Managers
- Team Leaders
- Business Analysts
- Manufacturing Engineers
- Continuous Improvement Managers
- Industrial Engineers
- Management Consultants
- Change Managers
- Business Process Managers
- Supply Chain Managers
- Systems Managers
- Performance Managers

- Compliance Managers

## Course Syllabus

### Course Contents: Lean Six Sigma Green Belt

#### Define Phase

- Understanding Six Sigma
- Six Sigma Fundamentals
- Selecting Projects
- Elements of Waste
- Wrap Up and Action Items

#### Measure Phase

- Welcome to Measure
- Process Discovery
- Six Sigma Statistics
- Measurement System Analysis
- Process Capability
- Wrap Up and Action Items

#### Analyze Phase

- Welcome to Analyze
- “X” Sifting
- Inferential Statistics
- Introduction to Hypothesis Testing
- Hypothesis Testing Normal Data Part One and Part Two
- Hypothesis Testing Non-Normal Data Part One and Part Two
- Wrap Up and Action Items

#### Improve Phase

- Welcome to Improve
- Process Modeling Regression
- Advanced Process Modeling
- Design Experiments
- Wrap Up and Action Items

#### Control Phase

- Welcome to Control
- Advanced Experiments
- Capability Analysis
- Lean Controls
- Defect Controls
- Statistical Process Control (SPC)
- Six Sigma Control Plans
- Wrap Up and Action Item