



Lean Six Sigma Yellow Belt

About the Course

This two-day course introduces you to Lean Six Sigma which is a combination of Lean methods and Six Sigma approaches. It covers the basics of Lean Six Sigma and shows you the tools and approaches for eliminating waste and improving quality within an organisational process. The course has classroom based practical exercises that demonstrate the tools, techniques and approaches in action and illustrates their results and culminates in an APMG foundation examination. Course modules follow the DMAIC improvement model and include:

ENTERPRISE OVERVIEW

Lean history, philosophy, principles and wastes; Six Sigma history, philosophy and process equation; Lean Six Sigma Key Principles and the DMAIC Improvement Model; Continuous Improvement Organisation – Roles and Responsibilities; Team Based Approach – Practices, Evolution and Brainstorming; Other Improvement Methods – Design for Lean Six Sigma & DMADV.

DEFINE PHASE

Voice of Business - Project Charter; Voice of Customer – CTQs/Customer Segments/Collection/Kano; Voice of Process - SIPOC Diagrams; Voice of Stakeholders – Mapping and Communication Planning.

MEASURE PHASE

Discrete and Continuous Data; Measurement Systems Analysis; Data Collection, Planning and Techniques; Descriptive Statistics and Sigma Capability, Defects and Yields.

ANALYSE PHASE

Value Analysis, Value Stream Mapping and Theory of Constraints; Cause and Effect Analysis – Ishikawa, 5 Whys and Hypothesis Testing; Correlation.

IMPROVE PHASE - Stabilisation and TPM; Jidoka; Rapid

Improvement Approach; Creating Level Work Flow and Setup Reduction; Work Cells and Product Family Analysis; Solution Selection - Impact/Effort Evaluation.

CONTROL PHASE

Common and Special Causes of Variation; Statistical Process Control; Failure Mode and Effect Analysis; Control Planning; Visibility Principle; Project Handover.

Who will benefit?

Operational managers, Supervisors and Team/Department Leaders who wish to improve their processes and increase their outputs or who are responsible for implementing lean and quality improvement initiatives. Strategic leaders who want to gain a greater understanding of how their organisation generates wastes and the basic principles to eliminate these.

Yellow belts are there to support Green and Black belts in their roles following the use of Lean Six Sigma methodology.

Exams

Foundation

40 minutes, closed book, 50 multiple-choice questions.
Pass mark 50%.

Passing the exam will give you an internationally-recognised professional qualification.

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