

An Introduction to Lean

Course Description:

This course is an introduction to the methods of Lean and Six Sigma and the contribution they make to improving a process. These approaches to process improvement reduce waste, boost productivity, and increase overall profitability. Lean Six Sigma can be successfully implemented in organisations of every size and in all sectors of industry.

The course aims to provide you with a balance of theoretical learning and practical know-how through an introduction to Lean, and the fundamentals of Six Sigma.

Target audience:

Aspiring project managers, core team members of project teams, direct reports starting to work in a lean environment or any member of the workforce who wishes to introduce the theory of Lean into their workplace.

Learning Objectives

The objective is to help you discover more about lean through the following five modules and topics:

Module Number	Module Title	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5
Module 1	Background & History	Introduction to DMAIC Lean as distinct from other forms of project management	History Lean Henry Ford / Toyota / JIT / KanBan / Continuous Improvement / PDCA Cycle	History 6-Sigma 1908 T-Testing / Statistical Process Control / 3.4DPMO	Roles & Belts Overview of belts and levels in LSS and roles, including champion and lean executives	The Lean Enterprise Understand Lean culture / role of individuals / commitment to CIP and Rewarding
Module 2	Lean Fundamentals	5 Principles Define Value / Map value Stream / establish flow / establish pull / seek perfection	3 Customers Internal / External / Regulatory	3 Activities Value Add / Non-Value Add / Necessary NVA	8 Wastes TIMWOODS / 8 MUDA / DOWNTIME	Gemba Go and see Management walks
Module 3	6-Sigma Fundamentals	Mu & x-Bar Averages and the problem of averages	Standard Deviation A measure of variation	Empirical rule Applying 6-Sigma (the empirical rule)	Voice of Customer Understand Voice of Customer	Lean Charter Benefits of Charter, Business case & problem Statement
Module 4	Problem Solving Approaches	Project Selection Approaches PESTEL and / or SPEC-TRES	Kaizen Benefits of a Kaizen Blitz and how to plan one.	A3 Using an A3 storyboard to track a CIP project	PDCA Understand the PDCA Deming improvement cycle	DMAIC Understand DMAIC as a cycle and also as a project management sequence
Module 5	General Information	Typical Documents SIPOC / RACI / Maps (VSM)		Gate Reviews How to "gate" a DMAIC project effectively	Elements of Culture Fundamentals of a LSS culture / Norms of a LSS culture / Artefacts of a LSS culture	Rewards & Recognition Need for and benefits of implementing rewards.

Course Outline

Delivery: Live facilitator led virtual classroom workshop.

Learning platform: Go to Training or MS Teams.

Learning methodology: Real world activities by topic.

Learning transfer: Facilitated inter active presentation, reinforcement exercises, learning by doing.

Facilitator Profile

Padraig McCabe

Padraig is a Trainer, Entrepreneur, Company owner and Business Development Engineer with 31 years of global business experience across various industries. He has delivered training and workshops to personnel and organisations in China, Hong Kong, India, the UK, Scandinavia, Central Europe and to companies in 32 of the 50 USA states.

Padraig's training delivery approach is highly engaging and structured, affording the participant an opportunity to learn at every possible juncture that accumulates into a top-class learning experience. He is passionate about effectively communicating, through the efficient use of engaging content, applying supporting technologies merged with polished & considered presentation.

Course Duration:

7 hours

Certificate of Completion:

Yes

Course Access:

Go to training or MS Teams for live Virtual classroom