



Operations & Quality

# Application of Excellence framework in Lean Six Sigma for Process Improvement

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- Location: London
  - Date: From 10/2/2025 To 14/2/2025
  - Investment: \$5950 (Excluding VAT)



LONDON ROYAL  
ACADEMY


[WWW.LONDONRA.COM](http://WWW.LONDONRA.COM)



## Course Introduction

This 5-day intensive course provides a comprehensive framework for achieving operational excellence by integrating the principles of Lean and Six Sigma. Participants will learn to identify, analyze, and eliminate waste in business processes while simultaneously improving quality and reducing defects. The course emphasizes a data-driven approach, utilizing statistical tools and methodologies to drive meaningful improvements across various organizational functions.

## Training Method

- Pre-assessment
  - Live group instruction
  - Use of real-world examples, case studies and exercises
  - Interactive participation and discussion
  - Power point presentation, LCD and flip chart
  - Group activities and tests
  - Each participant receives a binder containing a copy of the presentation
  - slides and handouts
  - Post-assessment
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## Course Objectives

Upon successful completion of this course, participants will be able to:

- Understand Lean Principles: Identify and eliminate waste (muda) in processes, including overproduction, waiting, transportation, inventory, motion, overprocessing, and defects.
- Master Six Sigma methodologies: Apply DMAIC (Define, Measure, Analyze, Improve, Control) and other Six Sigma tools for process improvement.
- Integrate Lean and Six Sigma principles: Develop a holistic approach to process improvement that combines lean thinking with Six Sigma methodologies.
- Conduct root cause analysis: Identify the root causes of process variation and defects using tools like fishbone diagrams, 5 Whys, and Pareto analysis.
- Develop and implement process improvement projects: Plan, execute, and monitor process improvement projects using Lean Six Sigma tools and techniques.
- Communicate effectively: Present project findings, communicate improvement recommendations, and gain stakeholder buy-in.
- Foster a culture of continuous improvement: Cultivate a mindset of continuous improvement within their teams and organizations.

## Who Should Attend?

This course is designed for professionals from various industries who are interested in improving business processes and achieving operational excellence. Ideal candidates include:

- Operations Managers
  - Project Managers
  - Quality Engineers
  - Process Improvement Specialists
  - Business Analysts
  - Team Leaders
  - Anyone involved in process improvement initiatives
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# Course Outline

## Day 1: Foundations of Lean and Six Sigma

- Morning:
- Introduction to Lean Principles: Value stream mapping, 5S methodology, waste elimination.
- Six Sigma Concepts: Defining Six Sigma, understanding variation and defects.
- Introduction to DMAIC Methodology: Define phase – project charter, scope definition, customer requirements.
- Afternoon:
- Lean Thinking Tools: Poka-Yoke, 5S implementation, visual management.
- Six Sigma Tools: SIPOC diagram, process mapping, VOC (Voice of the Customer) analysis.

## Day 2: Measure Phase

- Morning:
  - Data Collection Methods: Process observation, data logging, surveys, interviews.
  - Data Analysis Techniques: Descriptive statistics, data visualization, histograms, Pareto charts.
  - Key Performance Indicators (KPIs): Identifying and measuring critical process metrics.
- Afternoon:
  - Data Analysis Tools: Statistical software (e.g., Minitab, Excel), data analysis techniques.
  - Hands-on Exercise: Data collection and analysis for a real-world process.

## Day 3: Analyze Phase

- Morning:
  - Root Cause Analysis: Fishbone diagrams, 5 Whys analysis, Failure Mode and Effects Analysis (FMEA).
  - Process Variation: Understanding and analyzing process variation using statistical tools.
  - Design of Experiments (DOE): Identifying key process inputs and their impact on outputs.

# Course Outline

- Afternoon:  
Hands-on Exercise: Conducting root cause analysis for a process with defects

## Day 4: Improve Phase

- Morning:
  - Developing and Implementing Solutions: Brainstorming, creative problem-solving techniques.
  - Lean Tools for Improvement: Kaizen events, SMED (Single Minute Exchange of Die), value stream mapping.
  - Six Sigma Tools: Design of Experiments, simulation modeling.
- Afternoon:
  - Hands-on Exercise: Developing and implementing improvement solutions for a case study.

## Day 5: Control Phase

- Morning:
  - Control Plans: Developing and implementing control plans to sustain improvements.
  - Monitoring and Measurement: Tracking KPIs, conducting periodic reviews, and making adjustments.
  - Continuous Improvement: Building a culture of continuous improvement within the organization.
- Afternoon:
  - Lean Six Sigma Project Presentations: Participants present their project findings and recommendations.
  - Q&A and Wrap-up Session

# Registration & Payment

Complete & Mail to London Royal Academy or email  
registration@londonra.com

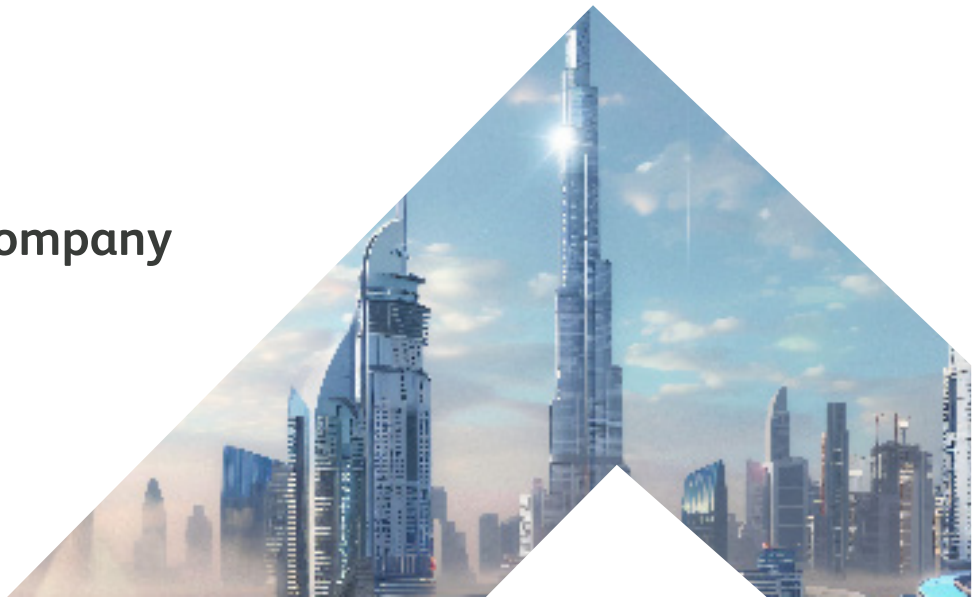


## Registration Form

- Full Name (Mr / Ms / Dr / Eng) .....
- Position .....
- Telephone / Mobile .....
- Personal E-Mail .....
- Official E-Mail .....
- Company Name .....
- Address .....
- City / Country .....

## Payment Options

- ☐ Please invoice me
- ☐ Please invoice my company





# Terms & Conditions

Complete & Mail to London Royal Academy or email

[registration@londonra.com](mailto:registration@londonra.com)



## Cancellation and Refund Policy

Delegates have 14 days from the date of booking to cancel and receive a full refund or transfer to another date free of charge. If less than 14 days' notice is given, then we will be unable to refund or cancel the booking unless on medical grounds. For more details about the Cancellation and Refund policy, please visit

[www.londonra.com/terms-and-conditions/](http://www.londonra.com/terms-and-conditions/)

## Registration & Payment

Please complete the registration form on the course page & return it to us indicating your preferred mode of payment. For further information, please get in touch with us

## Course Materials


The course material, prepared by the LRA, will be digital and delivered to candidates by email

## Certificates

Accredited Certificate of Completion will be issued to those who attend & successfully complete the programme.

## Travel and Transport

We are committed to picking up and dropping off the participants from the airport to the hotel and back.



# VENUES

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# THANK YOU

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