

Operations & Quality

OPERATIONAL
EXCELLENCE

Mastering Advanced Quality Control

- Location: London
- Date: From 27/1/2025 To 31/1/2025
- Investment: \$5950 (Excluding VAT)



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ACADEMY


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Course Introduction

Mastering Advanced Quality Control is a 5-day intensive course designed to equip participants with the knowledge and skills to implement and optimize advanced quality control techniques. This course will delve into statistical process control, quality management systems, and continuous improvement methodologies.

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
 - slides and handouts
 - Post-assessment
 - Each participant receives a binder containing a copy of the presentation
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Course Objectives

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

- Understand statistical process control (SPC): Apply SPC techniques to monitor and control processes.
- Implement quality management systems: such as ISO 9001, to ensure consistent quality.
- Utilize advanced quality tools: like Six Sigma, Lean Six Sigma, and Design of Experiments (DOE).
- Analyze and interpret data: to identify trends, patterns, and root causes of quality issues.
- Develop and implement effective quality improvement plans: to enhance product and service quality.
- Communicate quality performance: to stakeholders effectively.

Who Should Attend?

This course is suitable for:

- Quality engineers
 - Quality managers
 - Operations managers
 - Production engineers
 - Anyone interested in improving quality and efficiency in their organization
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Course Outline

Day 1: Statistical Process Control (SPC)

- Introduction to SPC:
 - o Basic statistical concepts
 - o Control charts (X-bar, R, p, c)
 - o Process capability analysis
- SPC Applications:
 - o Monitoring and controlling processes
 - o Identifying process variations
 - o Reducing defects and improving quality

Day 2: Quality Management Systems (QMS)

- ISO 9001:
 - o Overview of ISO 9001 standards
 - o Implementing a QMS
 - o Document control and record keeping
- Internal Audits:
 - o Conducting internal audits
 - o Corrective and preventive actions
- Continuous Improvement:
 - o Kaizen and Lean principles

Day 3: Advanced Quality Tools and Techniques

- Six Sigma:
 - o DMAIC methodology
 - o Define, Measure, Analyze, Improve, Control phases
 - o Statistical tools for Six Sigma (hypothesis testing, ANOVA)
- Design of Experiments (DOE):
 - o Factorial designs
 - o Response surface methodology
 - o Taguchi methods

Course Outline

Day 4: Data Analysis and Problem-Solving

- Data Analysis Techniques:
 - o Data mining and data visualization
 - o Statistical software (Minitab, JMP)
- Root Cause Analysis:
 - o 5 Whys analysis
 - o Fishbone diagrams
- Problem-Solving Techniques:
 - o 8D problem-solving
 - o Lean problem-solving

Day 5: : Advanced Quality Management Topics

- Total Quality Management (TQM):
 - o TQM principles and practices
 - o Customer focus and supplier relationships
- Quality by Design (QbD):
 - o Design of Experiments (DOE) for product and process development
 - o Risk assessment and management
- Quality Metrics and KPIs:
 - o Key performance indicators (KPIs)
 - o Benchmarking and best practices

Registration & Payment

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

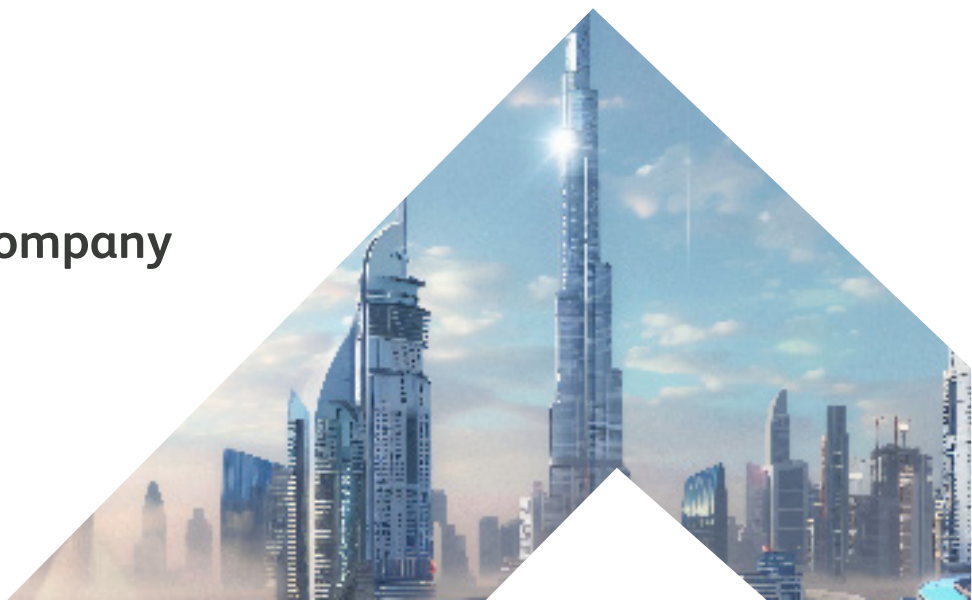


Registration Form

- 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
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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/

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.



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OUR PARTNERS



THANK YOU

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