

## Advanced Root Cause Analysis

*Cairo (Egypt)*

*13 - 17 July 2025*

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## Advanced Root Cause Analysis

Code: LM28 From: 13 - 17 July 2025 City: Cairo (Egypt) Fees: 3300 Pound

### Introduction

This course offers an in-depth exploration of Root Cause Analysis RCA, focusing on advanced techniques and their integration with Six Sigma, Lean, and Kaizen. Participants will gain practical skills to effectively identify and address root causes, enhancing problem-solving and quality management.

### Course Objectives

- Understand RCA principles and methodologies.
- Apply advanced RCA tools and techniques.
- Integrate RCA with Six Sigma, Lean, and Kaizen.
- Practice RCA through real-world case studies.
- Develop actionable RCA implementation strategies.

### Course Outlines

#### Day 1: Introduction to RCA

- Overview of RCA principles and methodologies.
- Key techniques: 5 Whys, Fishbone Diagram, Fault Tree Analysis.
- Integration with Six Sigma, Lean, and Kaizen.

#### Day 2: Advanced Tools and Techniques

- Data collection and analysis methods.
- Advanced RCA tools: Cause-and-Effect Matrix, Pareto Analysis, Process Mapping.
- Introduction to RCA software and data visualization tools.

#### Day 3: Practical Application

- Case studies and real-world examples.
- Group exercises using RCA tools.

#### Day 4: RCA and Improvement Approaches

- Combining RCA with Six Sigma, Lean, and Kaizen.
- Interactive workshops on integration strategies.

#### Day 5: Implementation and Review

- Developing an RCA framework for your organization.

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- Overcoming challenges and resistance.
- Action plan creation and course review.

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 International House 185 Tower Bridge  
Road London SE1 2UF United Kingdom

 +44 7401 1773 35  
+44 7480 775526

 [Sales@blackbird-training.com](mailto:Sales@blackbird-training.com)

 [www.blackbird-training.com](http://www.blackbird-training.com)

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