

TRIZ □ Theory of Inventive Problem Solving

Cape Town (South Africa)

19 - 23 January 2026

UK Traininig

PARTNER



TRIZ – Theory of Inventive Problem Solving

Code: OC28 From: 19 - 23 January 2026 City: Cape Town (South Africa) Fees: 4000 Pound

Introduction

TRIZ Theory of Inventive Problem Solving is a powerful methodology for systematic innovation and inventive problem-solving, developed from the analysis of over 2 million patents. This TRIZ training course introduces you to TRIZ tools and techniques that help solve both technical and non-technical problems creatively and efficiently. The program is designed to empower participants with the TRIZ methodology to overcome challenges and foster innovation across various fields, including engineering, business, and product design.

Course Objectives

By the end of this TRIZ course, participants will be able to:

- Understand the TRIZ method and its core principles.
- Use TRIZ tools to systematically solve real-world problems.
- Identify and eliminate contradictions in designs or business systems.
- Apply TRIZ principles in engineering, business, and innovation projects.
- Enhance idea quality and reduce time-to-innovation by leveraging TRIZ innovation principles.

Course Outlines

Day 1: Introduction to TRIZ & Systematic Innovation

- History and Philosophy of TRIZ.
- Understanding TRIZ concepts and innovation patterns.
- Overview of TRIZ methodology and its applications.
- Comparison: TRIZ vs Traditional Problem-Solving Methods.
- Understanding Systems and the Ideal Final Result IFR.

Day 2: Contradictions & the 40 Inventive Principles

- Defining Technical & Physical Contradictions.
- Tools for Eliminating Contradictions.
- The 40 Inventive Principles - Concepts & Real Examples.
- Contradiction Matrix - How to Use It.
- Workshop: Applying Inventive Principles to Real Problems.

Day 3: Functional Analysis & Root Cause Analysis SFA, RCA

- Functional Analysis - Identifying Useful & Harmful Functions.
- Trimming and Function Modeling.
- Root Cause Analysis Using TRIZ logic.
- Substance-Field Su-Field Modeling.

- Case Study: Using SFA to Solve Technical Challenges.

Day 4: Patterns of Evolution & Inventive Standards

- Technology Evolution Trends in TRIZ.
- 9 Windows Tool - Analyzing Time and Space Dimensions.
- Standard Solutions Inventive Standards.
- ARIZ - Algorithm for Inventive Problem Solving Intro.
- Group Exercise: Using Patterns to Forecast System Evolution.

Day 5: Applying TRIZ in Practice

- Practical Application of TRIZ in Product Design, Manufacturing, and Services.
- Integrating TRIZ with Six Sigma, Lean, and Agile methodologies.
- Solving Business & Management Problems with TRIZ principles.
- Final Project: Solving a Real or Simulated Problem with TRIZ tools.
- Review, Feedback, and Certification.

Why Attend This Course: Wins & Losses!

- Learn TRIZ as an innovative methodology to solve problems systematically in both technical and non-technical domains.
- Gain the ability to eliminate contradictions in systems or designs, enabling more creative solutions and innovations.
- Master the TRIZ theory of inventive problem solving to analyze root causes and address challenges at their core.
- Apply TRIZ innovation principles to engineering, business, and product development projects, accelerating innovation and reducing time to market.
- Develop skills in forecasting system evolution using TRIZ patterns, enhancing strategic planning and problem-solving.

Conclusion

This TRIZ training course provides a comprehensive understanding of the TRIZ methodology, enabling you to approach problems with a structured and inventive mindset. By leveraging TRIZ tools in product design, manufacturing, and business management, you will be able to address complex challenges efficiently and innovate effectively.

Enroll now to master the TRIZ theory of inventive problem solving and lead your projects towards breakthrough solutions.



Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)
(Switzerland)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich



Manchester (UK)



Milan (Italy)



Blackbird Training Cities

USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

ASIA



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Melbourne (Australia)
Korea



Phuket (Thailand)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Seoul (South)



Pulau Ujong (Singapore)



Irbid (Jordan)



Jakarta (Indonesia)



Amman (Jordan)



Beirut



Blackbird Training Cities

AFRICA



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



MANNAI Trading
Company WLL,
Qatar



Alumina Corporation
Guinea



Booking.com
Netherlands



Oxfam GB International
Organization,
Yemen



Capital Markets
Authority,
Kuwait



Waltersmith Petroman Oil Limited
Nigeria



Qatar National Bank
(QNB),
Qatar



Qatar Foundation,
Qatar



AFRICAN UNION ADVISORY
BOARD ON CORRUPTION,
Tanzania



KFAS
Kuwait



Reserve Bank of
Malawi,
Malawi



Central Bank of Nigeria
Nigeria



Ministry of Interior
Kingdom of Saudi Arabia
KSA



Mabruk Oil Company
Libya



Saudi Electricity
Company,
KSA



BADAN PENGELOLA
KEUANGAN Haji,
Indonesia



NATO
Italy



ENI CORPORATE
UNIVERSITY,
Italy



Gulf Bank
Kuwait



المؤسسة العامة للتأمينات الاجتماعية
General Organization for
Social Insurance
KSA



Defence Space Administration
Nigeria



National Industries
Group (Holding),
Kuwait



Hamad Medical
Corporation,
Qatar



USAID
Pakistan



STC Solutions,
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS
UN.



هيئة تنظيم الكهرباء - عمان
AUTHORITY FOR ELECTRICITY REGULATION, OMAN
Authority for

UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Entertainment & Leisure
Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Artificial Intelligence (AI)
Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



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



+44 7401 1773 35
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

UK Training

PARTNER

