

TWO DAYS CORPORATE TRAINING WORKSHOP

# TRIZ LEVEL 1 PRACTITIONER WORKSHOP



# TRIZ

Theory of Inventive  
Problem Solving

## INTRODUCTION

PIQC Institute of Quality invites you to a comprehensive two-day workshop on an important topic related to Innovation in Quality improvement. This program is meticulously designed to elevate your problem-solving skills and innovation capacity to meet international standards, placing you in the league of global innovators like 3M, Siemens, Samsung, and Boeing who have made TRIZ a cornerstone of their innovation strategy.

## WHAT IS TRIZ?

The Theory of Inventive Problem Solving (TRIZ) stands out as a pivotal methodology, originating from Russia, now essential for anyone keen on mastering the art of innovation. TRIZ is a unique approach to innovation that identifies and solves problems by leveraging solutions from across various domains, based on the study of patents to identify universal principles of creativity. Unlike other quality tools such as Six Sigma, which focuses on reducing defects and process variability through data-driven approaches and statistical analysis, TRIZ encourages innovative problem-solving beyond the immediate domain. While Six Sigma utilizes DMAIC or DMADV methodologies for process improvement and efficiency, TRIZ focuses on resolving contradictions and fostering creativity, making it a complementary tool for scenarios requiring inventive solutions. This approach involves identifying and resolving contradictions, a core element of TRIZ, using a set of 40 inventive principles and a contradiction matrix to systematically address challenges.

## WHO SHOULD ATTEND

R&D Managers, Design Engineers, Quality Professionals, Tech Entrepreneurs, Marketing and Sales Leaders, Software Engineers, and Startups.

- ✓ **Starting from Mar 4-5, 2024**
- ✓ **Venue: PIQC Training Center, Lahore**

[www.piqc.edu.pk](http://www.piqc.edu.pk)

## LEARNING OUTCOMES

- Acquire a structured framework for innovation and problem-solving, proven to deliver results.
- Apply the 40 Inventive Principles to spark unparalleled creative solutions.
- Master function analysis and cause-and-effect chains for deeper problem understanding.
- Enhance your critical thinking and analytical skills to navigate complex challenges.
- Earn your International TRIZ Level 1 Practitioner certification, marking a significant milestone in your professional growth.

## COURSE OUTLINE

**Structured Problem-Solving Process:** A step-by-step guide for problem identification, analysis, solution development, discussion, standardization, and monitoring.

**Function Analysis:** Focuses on understanding and prioritizing functions to find solutions, highlighting the importance of functionality over products.

**Cause-Effect Chain Analysis (CECA):** Tool for refining problem statements and identifying root causes.

**Trimming:** Method for removing non-essential components to streamline and optimize systems.

**39 System Parameters & 40 Inventive Principles:** Introduces parameters for system analysis and principles derived from extensive patent analysis for solving contradictions.

**Contradiction Matrix:** A structured tool to help identify principles for resolving engineering contradictions.

## COURSE CONTENTS

### Day-1

Morning session

- Introduction - What is Systematic Innovation/TRIZ?
- TRIZ methodology, history & adoption
- Structured Problem Solving Process
- Function Analysis
- Cause & Effect Chain Analysis Lunch (1230-1330)

Afternoon session (1330-1700)

- Trimming
- Exercises and Discussions

### Day-2

Morning session

- Recap Day 1
- Ideality
- Engineering Contradictions
- 39 System Parameters
- Contradiction Matrix
- 40 Inventive Principles Lunch

Afternoon session

- 40 Inventive Principles (cont'd)
- Tea break
- Exercises & Assessment
- Summary & Wrap-up

## COURSE INSTRUCTOR

**Dr. Sajid Iqbal** a distinguished TRIZ Level-1 Instructor and Level-2 Practitioner from TRIZ Innovation Association (MyTRIZ) Malaysia. He is Gold Medalist, CICOPS Fellow (Italy), and esteemed Fellow of IEP and IEEE, brings a wealth of knowledge and experience as your workshop facilitator. A recognized Master Trainer with large number of Government, Defence and local industries. Dr. Iqbal is dedicated to guiding you through the intricacies of TRIZ, ensuring a transformative learning experience.



## CERTIFICATE

A certificate will be awarded by PIQC Institute of Quality.

## FEE & REGISTRATION

For Registration or information, Contact at below Mobile/Email: