

1-Day Course on Problem Solving using TRIZ Innovation

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By

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Organized by



Quality Council of India

National Board for Quality Promotion
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About QCI Delhi:

<http://www.qcin.org/about-qci.php>

Course Outline:

Need for Systematic Innovation

The goal of industry is to seek innovative solutions to engineering problems, quickly and with fewer resources. This is required to improve their products. However, human nature, specialist training, habits, paradigms and the working environment constrain our innovative thinking. This is called "psychological inertia" and it has to be overcome to obtain innovative solution concepts for the chronic technical problems.

TRIZ is the only scientifically based systematic methodology that overcomes this "psychological inertia". TRIZ has been proven to produce a large range of fundamentally strong solution concepts in a much shorter time scale even when resources are very limited. TRIZ solutions directly result in improved products at reduced cost.

TRIZ is a Russian acronym meaning "Theory of Inventive Problem Solving". In late 1940's, a study of 200,000 patents yielded a systematic approach for definition and identification of innovative problems, a set of problem solving tools, and a vast knowledge database, which can help solve current technical problems in an innovative way.

Course Contents:

This course introduces all the main **TRIZ tools** so that delegates can first identify the "inventive" problem and then find several "innovative" solutions for the same. Various TRIZ tools covered in the course are:

- Principles to resolve contradictions
- Ideality and Ideal Final Result (IFR)
- Functional Analysis Diagram
- Use of Trends of Evolution

The introduction to each TRIZ tool is followed by real world examples.

Who should attend?

Engineers, technical managers, scientists and quality professionals.

Engineers and managers from industries who are involved in

- Product and Process Design,
- New Product Development
- Research and development and managers working in the field of innovation and IPR will be specially benefited.

Course Faculty:

The course will be conducted by



Dr Prakash R. Apte

Professor Apte has, during past 17 years, conducted over 100 courses on “Problem Solving using TRIZ Innovation” for Indian industries, emphasizing its potential in innovative problem solving and opportunity creation. He has introduced “TRIZ” to hundreds of engineers and managers from industry.

Course Schedule (10.00 am to 5:30 pm)

Sr. No.	CONTENTS	TIME (Hrs)	
		From	To
	Registration and inauguration	9:30	10:00
01.	Overview of TRIZ	10.00	11:30
<i>T e a B r e a k</i>		11.30	12.00
02.	The Tools of TRIZ : Physical & Technical Contradiction	12:00	12:45
03.	The Tools of TRIZ : Trends of Technical Systems Evolution, Evolutionary Potential	12:45	13:30
<i>L u n c h B r e a k</i>		13:30	14:15
04.	The Tools of TRIZ : Overcoming ‘Psychological Inertia’	14:15	14:45
05.	The Tools of TRIZ : Ideality and Ideal Final Result (IFR) and System Resources	14:45	15:15
06.	Interactive session : ⇒ Problem Formulation	15:15	15:45
<i>T e a B r e a k</i>		15:45	16:00
06.	The Tools of TRIZ: Function Analysis and Trimming of components	16:00	16:30
07.	Interactive session : ⇒ Problem Solving	16:30	17:00
08.	Put-it-all-together Summary of all TRIZ tools	17:00	17:30

Registration fees (including GST) :

INR 3,500/-

Online Registration Link is given below

Important Information:

Last date of receiving application: **1st December 2017**

Course Material

Comprehensive notes, that cover all the TRIZ tools, will be given at the time of registration. It will contain an “Introduction to TRIZ”, 40 principles, contradiction Matrix and a printout of overview slides.

Online Registration Link:

<http://qcin.org/nbqp/wqm/2017/>

Payment Mode: Online through

- Fee should be in form of NEFT, or Cheque/DD
- Cheque/DD should be in favour of “Quality Council of India”

Note: Registration fee includes tea, lunch and registration kit

Contact:

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