



Three Day Training Program:

MATRIZ Level 1 TRIZ & Systematic Innovation: Technology and Engineering

The course starts daily at 09:00; finishes at 17:30 first two days and at 16:00 last day. Lunch break: 12:30-13:30.

DAY 1	DAY 2	DAY 3
<p>GOAL: Understand basics and key principles of TRIZ: evolution, contradictions, ideality, problem solving. Understand and learn tools for analysis of innovative situations and formulating innovative problems.</p>	<p>GOAL: Understand and learn how to generate ideas of innovative solutions with TRIZ Contradiction Matrix and 40 Inventive Principles.</p>	<p>GOAL: Understand, learn and practice with ideas evaluation techniques, identification of secondary problems. Learn the contents of advanced TRIZ tools.</p>
<p>CONTENT:</p> <ul style="list-style-type: none">• Background and key principles of Systematic Innovation.• Inventive problems and levels of solutions.• Developing innovative solutions based on problem solving. Systematic approach to innovative ideas generation.• TRIZ Roadmap. TRIZ Basic Process.• Problem Perception Mapping: defining location of a key innovative problem.• Innovation Situation Questionnaire.• Ideality and Resources. Criteria of "right" solutions.• Ideal Final Result and Ideal Solution• Root Conflict Analysis (RCA+): problem modeling and building contradiction tree.	<p>CONTENT:</p> <ul style="list-style-type: none">• Rules of selection of contradictions from RCA+ models. Defining strategy of problem solving.• Evolution of technical systems via contradictions elimination.• Common innovative patterns of contradiction elimination.• 40 Inventive Principles: innovative problem solving strategies and recommendations• Contradiction Matrix for systematic access to 40 Inventive Principles.• Generating ideas with 40 Inventive Principles and Resources.• Different versions and limits of Contradiction Matrix.	<p>CONTENT:</p> <ul style="list-style-type: none">• New ideas generation through Ideas combinations and building an Ideas Portfolio.• Filtering, Ranking and landscaping the ideas generated.• Identification of Secondary Problems.• TRIZ as a toolbox and TRIZ as a mindset.• Different types of innovative tasks.• The contents of advanced TRIZ.• TRIZ references.• Summary, Discussions and Closing.
<p>IN-CLASS PRACTICE:</p> <ul style="list-style-type: none">• Problem perception mapping• Innovation Situation Questionnaire• Ideal Solution• Problem Perception Mapping• Root Conflict Analysis (RCA+): key problem decomposition	<p>IN-CLASS PRACTICE:</p> <ul style="list-style-type: none">• Root Conflict Analysis (RCA+): : Contradictions Selection• Generating ideas of innovative solutions with Contradiction Matrix and 40 Inventive Principles	<p>IN-CLASS PRACTICE:</p> <ul style="list-style-type: none">• Generating new ideas with Ideas Combination• Ideas Ranking and Landscaping• Secondary Problems Identification
<p>Start: 09:00 Lunch: 12.30-13:30 Finish: 17.30</p>	<p>Start: 09:00 Lunch: 12.30-13:30 Finish: 17.30</p>	<p>Start: 09:00 Lunch: 12.30-13:30 Finish: 16.00</p>