



**UNIVERSITI KUALA LUMPUR**  
MALAYSIAN SPANISH INSTITUTE

(The contents and other related details in this form is used for publication purpose only. Training module will be given to participants upon registration)

|   |                         |                |
|---|-------------------------|----------------|
| <b>Course Title:</b><br><b>TRIZ Level 1 Practitioner Workshop</b>   | <b>Course Code :</b>    | <b>MMF 135</b> |
| <b><u>Course Background/Summary :</u></b><br>TRIZ is a theory created to systematize processes and procedures related to innovation and creativity in the solution of problems. TRIZ is a Russian acronym which stands for 'Theory of Inventive Problem Solving'.<br><br>TRIZ allows the analysis, the structuring of models and, finally, the solution of problems with a systematic approach based upon a series of subsequent stages and operating tools. The TRIZ methodology has proved to be the most efficient to solve inventive problems and one which may be learnt and used without any need for an innate individual creativity.<br><br>Supporting the validity of the methodology is the diffusion in companies both in small and medium enterprises, as well as in several giants at a worldwide level, including Samsung, Hyundai, Posco, GM, Intel, Johnson & Johnson, Procter & Gamble, Siemens. |                         |                |
| <b><u>Course Objectives:</u></b><br>At the end of this training, the participants will be able to: <ul style="list-style-type: none"><li>• Learn and understand concepts of TRIZ including contradictions, ideality, functions.</li><li>• Apply structured and systematic approach of TRIZ to solve problems and generate innovative ideas</li></ul>  |                         |                |
| <b>Target Audience:</b><br>Management Level/ Supervisory Level/ Supporting Staffs (please identify)   |                         |                |
| <b>Course Duration :</b>  | Min:2 days ; Max:3 days |                |
| <b>Course Contents :</b>  |                         |                |

UniKL MSI can also customize existing short courses and develop new courses to meet your personal training needs and requirements. The course duration serves as a guideline for your reference.

Please forward enquiries to Centre for Advancement & Continuing Education (ACE), University Kuala Lumpur (Malaysian Spanish Institute), Kulim Hi-Tech Park, 09000 Kulim, Kedah or via fax to:04-4032539 or email to [syazrah@unikl.edu.my](mailto:syazrah@unikl.edu.my) or call 04-4035199 / 200 (ext:112 / 185)



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| No                       | TOPICS  |
|--------------------------|---|
| 1                        | Introduction - What is Systematic Innovation/TRIZ?  |
| 2                        | TRIZ methodology, history & adoption  |
| 3                        | Structured Problem Solving Process  |
| 4                        | TRIZ Models and Tools-Function Analysis, Cause & Effect Chain Analysis                        |
| 5                        | TRIZ Models and Tools -Trimming, S-curves & Trends of Engineering System Evolution (overview) |
| 6                        | Malaysia TRIZ syllabus  |
| 7                        | Engineering Contradictions  |
| 8                        | 39 System Parameters  |
| 9                        | Contradiction Matrix  |
| 10                       | 40 Inventive Principles   |
| 11                       | TRIZ application in Manufacturing   |
| <b>COURSE STRUCTURE:</b> |   |
| Practical :              | 60%   |
| Theory :                 | 40%   |

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