Course Title: TRIZ: The Theory of Inventive Problem Solving

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<thead>
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<th>Course ID:</th>
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<tr>
<td>PD513</td>
<td>Instructor-led (classroom) Course</td>
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<td><a href="http://www.aiche.org/pd513">http://www.aiche.org/pd513</a></td>
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Course Schedule

Day One

- **8:00 – 8:30** Registration
- **8:30 – 8:45** Approaches to creativity and innovation
- **8:45 – 9:30** Patterns of invention and psychological inertia
- **9:30 - 10:00** TRIZ algorithm (ARIZ)
- **10:00 – 10:15** Morning Break
- **10:15 – 11:00** Ideal Final Result concept
- **11:00 – Noon** Case studies and examples
- **Noon – 1:00** Lunch Break
- **1:00 – 2:15** Resource identification, use, and conversion
- **2:15 – 2:30** Use of “negative” resources
- **2:30 – 2:45** Afternoon Break
- **2:45 – 3:45** 40 Inventive Principles
- **3:45 – 5:00** The TRIZ Contradiction Table and Its Updates
Day Two

8:30 – 10:00  Using the TRIZ contradiction table
10:00 – 10:15  Morning Break
10:15 – Noon  Case studies and example
Noon – 1:00  Lunch Break
1:00 – 2:15  Using TRIZ for business problems
            Case studies and examples
2:15 – 2:30  Afternoon Break
2:00 – 3:00  TRIZ in “reverse” for failure analysis and prediction
            Case studies and examples
3:00 – 5:00  Case studies and group projects

Day Three

8:30 – 9:30  TRIZ Lines and Patterns of Invention and Evolution
9:30 – 10:15  Cause and effect modeling tools for problem definition
10:15 – 10:30  Morning Break
10:30 – 12:00  The TRIZ “9-Box” Approach to Strategic Planning
               Case study
Noon – 1:00  Lunch Break
1:00 – 2:15  Final case studies and use of tools by participants
2:15 – 2:30  Afternoon break
2:30 – 3:00  Report Outs
3:00 – 3:45  Implementing TRIZ, Using TRIZ with other Tools
            (Brainstorming, CPS, DeBono Tools, QFD, Six Sigma, DFSS)
3:45 – 5:00  Final Exam and Q / A