



Course Title: TRIZ: The Theory of Inventive Problem Solving

Course ID:	Course Type:
PD513	Instructor-led (classroom) Course
http://www.aiche.org/pd513	

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 Case studies and examples
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 Case studies and examples
2:15 – 2:30	Use of “negative” resources Case studies and examples
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