

# TRIZ Level 1 Certification

## - Theory of Inventive Problem Solving

**You have a technical problem you could not solve before?** For this, TRIZ may offer you the right toolset for coming up with new solutions based on contradictions (Mann, 2001):

TRIZ (Theory of Inventive Problem Solving, also called TIPS) is the science of creativity derived from all scientific and engineering solutions. It is a problem solving toolkit, based on one of the biggest studies on creativity with over 1.500 person years of research, and has studied over two million of the world's most successful patents.

TRIZ is intended to complement and add structure to our natural creativity rather than replacing it. So it is about providing means for problem solvers to access the good solutions obtained by inventive minds. Hence, it is a creativity method dedicated for technical problems.

Several international companies such as Samsung, Intel, General Electric or Siemens are already using the concept and certification of the International TRIZ Association MA TRIZ.

**Participants of this course who successfully pass the test at the third day, will receive the MA TRIZ Level 1 Certificate!**

### Benefits

On the course you will receive:

- An overview of the TRIZ background
- Know-how about TRIZ tools & methods
- Opportunities to apply TRIZ in groups
- Knowledge how to formulate a problem
- Experience to form a group for TRIZ application
- Opportunity to receive a Level 1 Certificate
- Basis for future application and further education on TRIZ

### Audience

The course content is addressed to skilled professionals working in different industrial sectors. No basic knowledge is expected for participants of this course. The group size is limited to a maximum of 16 participants.

This offer is an ideal combination with the course on Creativity Techniques.

### Time and place

21.-23. January 2015

The course is held at University of Southern Denmark, Sønderborg campus

### Price

9.000 kr. excl. VAT

The price includes tuition, materials and meals during the course days.

The price does not include accommodation.

### Registration

Deadline 12. December 2014

On our website: [www.sdu.dk/sdue](http://www.sdu.dk/sdue)



# Program

## Day 1

- TRIZ Overview of tools & methods
- TRIZ History
- Introduction of "Nine Windows"
- Discussion rounds and group work

## Day 2

- Theory and Application of Root Cause Analysis
- Introduction to Function Analysis & Trimming
- Definition of Technical & Physical Contradictions
- Contradiction Matrix & Separation Principles
- Discussion rounds and group work

## Day 3

- Introduction to Trends of Evolution
- Overview of Substance-Field Analysis
- Discussion rounds and group work
- MA TRIZ Level 1 Test (120 Minutes)
- Individual MA TRIZ Level 1 Certification

### Contact

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Learn more on [www.sdu.dk/sdue](http://www.sdu.dk/sdue)

**Alexander Brem** is Professor of Technology & Innovation Management as well as Head of the Innovation & Business Group at the Mads Clausen Institute (MCI), University of Southern Denmark. He received his Diploma in Business Administration in 2004, and his Ph.D. in Innovation & Entrepreneurship in 2007. He is a successful Entrepreneur with the foundation of two companies, and gained many years of industry experience in the context of SME's. His research is focused on the management of technology and innovation, with a special focus on creativity.

**Jens Hammer** is project manager at 'Siemens' and PhD Student at the Friedrich-Alexander-Universität Erlangen-Nürnberg. He is member of TRIZ Campus, MA TRIZ Level 3 and has the accreditation for MA TRIZ-Level 1 trainings. He received his Diploma in Mechanical Engineering 2010, and his M.Sc. in Industrial Engineering in 2013.