

**CREATIVE &
STRUCTURE
PROBLEM SOLVING
& THINK OUT OF
THE BOX**



BY ELITE INDIGO

"Innovate. Solve. Succeed."



www.eliteindigo.com



contact@eliteindigo.com



100% HRDF Claimable

Overview

This program is designed to enhance problem-solving abilities by integrating both structured techniques and creative thinking approaches. By introducing the **TRIZ** (Theory of Inventive Problem Solving) philosophy and applying methods such as the **5 Whys**, **Function Modeling**, and the **40 Inventive Principles**, participants will learn how to systematically and creatively resolve technical issues. This workshop encourages participants to step outside traditional thinking patterns and generate innovative solutions for real-world problems.

Target Participants

- **Equipment Specialists (ES)**
- **Operation Specialists (OS)**

This training is aimed at professionals in technical fields, particularly those involved in troubleshooting, process improvement, and operations management. Participants will leave equipped with tools that enable them to innovate and challenge established practices.

Target Participants

By the end of the training, participants will:

1. **Understand TRIZ:** The philosophy, history, and its application in solving complex problems.
2. **Apply Core Techniques:** Implement 5 Whys, Function Modeling, and Engineering Contradictions to solve real-world issues with at least 3 innovative solutions.
3. **Think Creatively:** Challenge routine assumptions, identify process inefficiencies, and suggest improvements by applying Reverse Thinking, Abnormality Detection, and other creative thinking techniques.



Course Content

The course will consist of three main modules, with additional workshops and discussions designed to deepen the understanding of each concept.

Module 1: Introduction to TRIZ & Techniques

- Philosophy and History: Overview of TRIZ, its history, and the importance of structured problem-solving.
- 5 Whys: Introduction to this root-cause analysis technique.
- Function Model: A simplified approach to analyzing systems and components to identify inefficiencies.

Module 2: Advanced Problem Solving Techniques

- Engineering Contradiction: Identifying and resolving contradictions in systems without compromises.
- 40 Inventive Principles: Practical use of TRIZ's 40 principles to generate innovative solutions.

Module 3: Creative Thinking

- Abnormality Detection: Identifying issues that deviate from the norm and how to handle them.
- Reverse Thinking: Encouraging participants to approach problems from the opposite perspective.
- Change the Perspective: Exploring new viewpoints to reframe problems.
- Remove the Step & What if?: Simplifying processes and creating alternative scenarios to unlock new solutions.



Learning Methodology

- **Facilitated Presentations:** Theoretical concepts and methodologies will be introduced.
- **Group Discussions:** Participants will engage in interactive discussions to share experiences and challenges.
- **Workshops:** Hands-on activities to apply the learned techniques to real-life problems.
- **Q&A and Reflection:** Open sessions for questions and reflection to solidify the learning process.

Resources & Training Aids

- **Laptop & Projector:** For presentations and demonstrations.
- **Flip Charts & Whiteboards:** For brainstorming and illustrating concepts.
- **Handouts:** Providing case studies, worksheets, and templates for problem-solving exercises.

Duration

 2 Days



eliteindigo.com



Course Schedule (Day 1)

TIME	ACTIVITY	DETAILS
30 mins	Introduction <ul style="list-style-type: none"> • Trainer Profile • Ice Breaker • Learning Outcomes • Content Mapping 	<ul style="list-style-type: none"> • Briefly explain on trainer profile • Conduct ice breaker to get trainees energetic • Explain the learning outcomes for the session • Briefly outline the info in Content Mapping
2 hr 30 mins	Module 1: TRIZ & Techniques <ul style="list-style-type: none"> • 1.1 Philosophy, history and Why • 1.2 5 Whys • 1.3 Function Model 	<ul style="list-style-type: none"> • Briefly explain TRIZ meaning & philosophy • Outline the history of TRIZ • Explain 5 Whys, Function Model, Engineering Contradictions & 40 Inventive Principles • Interactive workshop to apply the techniques
4 hrs	Module 2: Additional techniques <ul style="list-style-type: none"> • 2.1 Engineering Contradiction • 2.2 40 Inventive Principles 	<ul style="list-style-type: none"> • Demonstrate and apply the techniques • Interactive workshop to apply the techniques

Course Schedule (Day 2)

TIME	ACTIVITY	DETAILS
7 hrs	Module 3: Think Out Of The Box <ul style="list-style-type: none"> • 3.1 Abnormality Detection • 3.2 Reverse Thinking • 3.3 Change the Perspective • 3.4 Remove the Step • 3.5 What if....? 	<ul style="list-style-type: none"> • Demonstrate and apply the techniques • Interactive workshop to apply the techniques
1 hr	Summary & Review	<ul style="list-style-type: none"> • Summarize the training • Recap Outcome with the participants

Trainer Profile

Yeoh Tay Jin brings over 30 years of experience in the semiconductor industry, specializing in technical problem solving, TRIZ implementation, and manufacturing efficiency. He has trained over 1,000 engineers globally and is an active member of the MATRIZ (International TRIZ Association). His practical experience and engaging training style ensure that participants gain deep, actionable insights into problem-solving methodologies. His achievements include significant cost savings and efficiency improvements across multiple global manufacturing sites.



ABOUT ELITE INDIGO

We help businesses reach their full potential by providing tailored consulting services, backed by experienced professionals and deep industry knowledge.

WHY CHOOSE US?

98% Customer Satisfaction
based on Google Reviews

4.9 ★★★★★ 1,038 Google reviews



CONTACT US

For More 100% HRDF
Claimable Courses



SCAN ME

OUR COURSES



ARTIFICIAL INTELLIGENCE (AI)
Dive into the cutting-edge world of AI, exploring algorithms, data analysis and more.



TECHNICAL SKILL
Sharpen your technical prowess from programming, software and more.



SOFT SKILL
Develop essential interpersonal skills to excel in any professional setting.



LEADERSHIP SKILL
Unleash your leadership potential with our Leadership Skills course



TEAMBUILDING
Understand the dynamics of teamwork, communication, and synergy

LET'S TALK BUSINESS!

 [+60124001158](tel:+60124001158)  www.eliteindigo.com  khenghuat.koay@gmail.com