



Professional Development Program for Engineers / Tech Venture Leaders - Incorporating Critical Thinking and Emotional Intelligence (1st Run)

Introduction

The world is changing and changing fast, resulting in high volatility, uncertainty, complexity and ambiguity throughout the world in unexpected ways. How should we deal with the current challenges? One way for Engineers to respond is to proactively embrace critical thinking to gain insight and foresight in order to enhance problem solving and decision making as well as to innovate and collaborate to meet changing market needs is the key to survive and grow in this era.

During Day 1 of the workshop, the participants will discover that they have the capacity to enhance their thinking process based on Critical Thinking methodology and apply the learning to develop robust solutions to the problems they face in the Engineering and Technology industry.

In today's interconnected world, Engineers and Engineering leaders often collaborate with colleagues and clients from diverse cultural backgrounds. Having strong emotional intelligence, effective communication and cultural awareness are indispensable skills for establishing robust working relationships and ensuring success in Engineering projects with diverse teams. Participants will become better prepared to facilitate inclusive collaborations, cultivate strong relationships among team members, and contribute meaningfully to achieve success in complex and/or global Engineering projects.

During Day 2 of the workshop, the program is designed to equip Engineers and Engineering Leaders with the essential tools they require to navigate cross-cultural interactions with sensitivity, empathy, and a profound grasp of emotional intelligence.

Delivery Methods

The workshop will be delivered through an amalgamation of interactive lectures, group discussions, case studies, role-playing exercises, and hands-on activities. Participants will be afforded the opportunity to glean insights from real-life scenarios, immerse themselves in cross-cultural simulations, and hone their communication prowess within a supportive and dynamic ambiance.

Details

Date : 18-19 March 2024

(Monday-Tuesday)

Time : 9.00am - 5.30pm

**Venue : IES Academy@Jurong East
80 Jurong East Street 21, #04-10
Devan Nair Institute for Employment
and Employability Singapore 609607**

PDU : NIL

Fee (include 9% GST):

IES member: S\$700

Non-member: S\$900

**E - Certificate of
Attendance will be
issued to participants
with **100%** attendance.*

**IES Academy@Jurong
East
80 Jurong East Street 21, #04-10
Devan Nair Institute for Employment
and
Employability Singapore 609607**

Contact Person: Jerine Peh
E-mail: Jerine.peh@iesnet.org.sg

Objectives

Day 1

- To equip Engineers and Engineering Leaders with a practical knowledge in critical thinking.
- To enable Engineers and Engineering Leaders to understand their habitual thinking and mental blocks that may be preventing them to think effectively
- To enable Engineers to cope with new problems and complex decisions in a volatile world with critical thinking

Day 2

- To equip Engineers and Engineering Leaders with a heightened understanding of emotional intelligence, fortified cross-cultural communication skills.
- To gain confidence to adeptly navigate diverse engineering environments with empathy and cultural sensitivity.
- To be better prepared to facilitate inclusive collaborations, cultivate strong relationships among team members, and contribute meaningfully to achieve success in complex and/or global Engineering projects

This Professional Development Program is delivered by one of our professional trainers with substantial experiences in the use of thinking skills and applying emotional intelligence, the participants are expected to walk away with a good understanding of how they could apply these skills at work.

Target Audience:

This course is designed for Engineers or Technology Venture Leaders who in or moving towards the next stage of leadership or management positions where robust analysis of complex situation, decision making, effective management and communication is important.

1. Key decision makers and management staff of Engineering and Technology Companies
2. Engineers keen to grow professionally seeking improvement in their decision making and collaboration capabilities
3. Engineers, Engineering Managers and Leaders who have to collaborate with team members of diverse cultural backgrounds
4. Engineers or Technology Venture leaders keen to grow professionally by improving their effectiveness in cross cultural, cross nationality communication for better business results

Course Outline:

At the end of Day 1 of the workshop, participants will be able to:

- Understanding critical thinking framework and applying critical thinking to evaluate information for insights and improvement in engineering processes and businesses
- Understand mental blocks and how to overcome them so as to become more creative and critical in looking at engineering and business issues
- Organize information and collaborate effectively both in engineering and business for effective problem solving and decision making

At the end of Day 2 of the workshop, participants will be able to:

- Achieve greater awareness of a variety of cultures for better effectiveness in engaging effectively in Engineering Projects or collaborations.
- Be equipped with tools and methodologies to engage in cross cultural interactions with greater sensitivity, empathy and emotional intelligence.
- Communicate effectively with a diverse range of cross cultural team members to meet the desired Engineering Business or Technology development outcome

Course Schedule – DAY 1 – CRITICAL THINKING SKILLS

Time	Activity Details	Instructional Technique
9.00-10.00 AM	1. Habitual Thinking in the Engineering World <ul style="list-style-type: none"> • Path dependency • Industry Revolution and Technology Disruption • Mental Inertia and Innovation 	Ppt presentation & Discussion
10.00-10.45 AM	2. Critical Thinking Framework for Engineering and Technology Companies (I) <ul style="list-style-type: none"> • Importance of Critical Thinking in Engineering • Habits of Mind: Curiosity, Humility and Scepticism • Cultivating a Questioning Mind 	Ppt presentation & Discussion
10.45-11.15 AM	<i>Tea Break</i>	
11.15-12.15 AM	3. Critical Thinking Framework for Engineering and Technology Companies (II) <ul style="list-style-type: none"> • Seeking information • Verifying Assumptions • Inductive and Deductive Reasonings 	Ppt presentation & Discussion
12.15-1.30 PM	<i>Lunch Break</i>	
1.30-2.30 PM	4. Recognising & Overcoming Mental Blocks <ul style="list-style-type: none"> • Tunnel Thinking • Group Thinking • Emotional Thinking • Ego Thinking • Practices to overcome Mental Blocks 	Ppt presentation & Discussion
2.30-3.30 PM	5. Critical Thinking in Decision Making <ul style="list-style-type: none"> • Level of Decision • Defining the Criteria • Generating and Evaluating the Options • Adopt Risk versus Reward mindset • Case Studies 	Ppt presentation & Discussion

3.30-4.00 PM	<i>Tea Break</i>	Ppt presentation & Discussion
4.00-5.00 PM	Critical Thinking for Successful Collaboration in Engineering <ul style="list-style-type: none"> • Connected World but Unconnected Minds • Understanding classical game theories: Prisoners' Dilemma & Stage Hunt • Applying Critical Thinking in collaboration 	
5.00-5.30 PM	Q&A by Participants	
5.30 PM	<i>End of course</i>	

Course Schedule – DAY 2 – EMOTIONAL INTELLIGENCE

Time	Activity Details	Training Resource	Instructional Technique
9.00-10.00 AM	Emotional Intelligence and Cultural Sensitivity <ul style="list-style-type: none"> • Definition and significance of emotional intelligence in engineering • Comprehending cultural diversity using Hofstede's 6 dimensions of culture • Advantages of effective cross-cultural communication for engineers 		Ppt presentation & Discussion
10.00-10.45 AM	OCEAN Traits in Enhancing Emotional Intelligence and Cultural Sensitivity <ul style="list-style-type: none"> • Overview of the OCEAN (Openness, Conscientiousness, Extraversion, Agreeableness, Neuroticism) personality traits • Influence of OCEAN traits on emotional intelligence and cross-cultural interactions • Strategies for harnessing OCEAN traits to enhance communication 		Ppt presentation & Discussion
10.45-11.15 AM	<i>Break</i>		
11.15-12.15 PM	Three Disciplines for Emotional Intelligence <ul style="list-style-type: none"> • Communication Model for Emotional Intelligence • The Discipline of Judgment: Distinguishing facts from opinions • The Discipline of Self-regulation: Managing emotional responses • The Discipline of Action: Discerning and understanding others' emotions and perspectives 		Ppt presentation & Discussion
12.15-1.30 PM	<i>Lunch</i>		

1.30-2.30 PM	Cross-Cultural Communication Strategies <ul style="list-style-type: none"> • Active listening and proficient questioning techniques • Overcoming language barriers and mitigating misinterpretations • Adapting communication styles to varying cultural norms • Role-play scenarios: Practicing conflict resolution with cultural sensitivity 		Ppt presentation & Discussion
2.30-3.30 PM	Diversity, Equity, and Inclusion (DEI) in Engineering <ul style="list-style-type: none"> • Exploring the significance of DEI in the engineering domain • Addressing unconscious biases and dispelling stereotypes • Cultivating inclusivity and fostering a sense of belonging within engineering teams 		Ppt presentation & Discussion
3.30-4.00 PM	<i>Tea Break</i>		
4.00-5.00 PM	Engaging with Marginalized Communities <ul style="list-style-type: none"> • Grasping the distinctive challenges faced by marginalized groups • Establishing trust and allyship within underrepresented communities • Case study analysis: Delving into successful engineering projects involving marginalized communities 		Ppt presentation & Discussion
5.00-5.30 PM	Q&A by Participants		
5.30 PM	<i>End of course</i>		

Speaker Profile:



Mr Jeremy Peh

Master Coach (Critical Thinking) / Serial Entrepreneur

Jeremy Peh has more than thirty years of working experiences in engineering and management positions across different functions: Design & Engineering, R&D, Supply Chain Management, Business Development, Technology Commercialization and Business Consulting.

Jeremy is currently a business consultant cum corporate trainer with an aim to inspire people wanting to be Critical Thinker and Ethical Leader. Jeremy has provided consulting projects for more than 200 companies across the industries in Business Development, Business Restructuring, Intellectual Properties Management, Corporate Branding, Business Franchising and Fund Raising. Jeremy is also a serial entrepreneur and he currently sits on the board of directors of various local companies such as Trugem Capital Pte Ltd and NexGem Pte Ltd. Jeremy has a Bachelor's Degree in Engineering (Naval Architecture) from the Kyushu University (Japan) under the PSC scholarship and obtained his Master of Business Administration from the University of Leeds (UK).

Participants' Feedback

- The trainer is knowledgeable and has made the course alive. He is engaging and present well.
- The trainer is very well organized. He engaged the participants actively and has shared many relevant examples. Good anecdotes!
- Jeremy approached his training in a lively and interactive manner. Very concise and provide relevant illustration.
- The trainer is open and encourages sharing of thoughts and opinions. He was engaging and course materials were well prepared.
- Jeremy has presented the thought process and framework which is useful in both work and personal life.

Registration Form

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Date of Course	:	18 th -19 th March 2024 (Monday – Tuesday)					
Course Time	:	9.00am to 5.30pm					
Venue	:	IES Academy@Jurong East					
Course Fee	:	\$800.00 (IES Members) / \$900.00 (Non Members) **GST Included					
CPD Programme	:	NIL					
Course Coordinator	:	Jerine Peh Tel: 6460 4247 Email: jerine.peh@iesnet.org.sg					
Closing Date	:	8 th March 2024, Friday / Till Class is full (Whichever comes first)					
Participant's Details							
Name	:				NRIC/FIN No	:	
Company	:				Designation	:	
Address	:						
				Postal Code	:		
Mobile	:		Office	:		Fax	:
Email	:						
Please indicate (where applicable)	<input type="checkbox"/> IES No:			<input type="checkbox"/> PE No:			
	<input type="checkbox"/> Non Members		<input type="checkbox"/> Company Sponsor		<input type="checkbox"/> Vegetarian		
Contact Person's Details (If different from participant)							
Name	:				Designation	:	
Mobile	:		Office	:		Fax	:
Email	:						
Payment Details					Amount:		
*Payment via PayNow/Bank transfer available. Please email to enquire. *All course fees are inclusive of 9% GST and E-course materials. *E-Certificate of Attendance will be issued to participants with 100% attendance.							
Acceptance of Terms & Conditions for Registration of IES Academy's Courses/Events							
I agree to abide by the Terms and Conditions for Registration of IES Academy's courses/events.							
Name:							
Signature: Date:							

TERMS & CONDITIONS ON COURSE REGISTRATION

Registration

Any registration, whether on-line or fax will be on a ***first-come-first-served basis*** and will only be confirmed upon receipt of full payment by IES Academy Pte Ltd unless otherwise invoice to company.

All registrations must be submitted with duly completed registration form.

Closing Date & Payment

The closing date of the event will be 1 week prior to event commencement date or earlier.

- Payment via **PayNow** to **IES Academy Pte Ltd (UEN:202026912H)** available.

Confirmation of Registration

Confirmation of registration will be given at least 1 week before the commencement date via email. ***If you do not receive the said confirmation email, you are required to contact IESA at 6463 9211 during office hours.***

IESA reserves the right to allow only confirmed registrants to attend the Event.

Withdrawals/Refunds of Fees

- Written notice ***at least 1 week in advance*** before the commencement of the event
- Full course fee shall be refunded subjected to 4.5% transaction charge.
- **NO** refund otherwise.
- No show of participant would not be accepted as a valid reason for withdrawal/refund.
- One time replacement is allowed only if written notice is received by us at least 1 week before the commencement of the event. However, when an IES member is replaced by a non-member, the participant has to pay the difference in the relevant fees.

Cancellation/Postponement

Changes in Venue, Dates, Time and Speakers for the Events can occur due to unforeseen circumstances. IES reserves the full rights to cancel or postpone the Event under such circumstances without prior reasons. Every effort, however, will be made to inform the participants or contact person of any cancellation or postponement.

Fees will be refunded in FULL if any Event is cancelled by IESA or IES-INCA.

PERSONAL DATA PROTECTION ACT

I consent to the processing by Institution of Engineers, Singapore of personal data, including sensitive personal data as defined in the Data Protection Act 2014, about me for the proper purposes of Institution of Engineers, Singapore (IES). I undertake to observe the provisions of the Data Protection Act 2014 in relation to any personal data I may myself hold and process as a Members of Institution of Engineers, Singapore, and I agree to indemnify Institution of Engineers, Singapore from liability for any claims or damages that may arise from the processing of this data. For more information kindly refer to [here](#).

Enquiries

For further enquiries, please contact IESA general office at Tel: 6463 9211.