



Instructor:

Wiroon Tanthapanichakoon

(Ajarn CHARLES)



Friday 6th August, 2021

Time: 09.00 am. – 17.00 pm.

Organized by: Chemical and Petrochemical Committee

The Engineering Institute of Thailand under H.M. The King's Patronage (EIT)

Co-organized by: ChemEngEdu



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Introduction

This 1-day course is designed to teach key technical concepts and key philosophy behind successful scale-up of chemical processes and equipment. The participants will learn not only theories but also example calculations so that they can adapt the scale-up knowledge to their own projects. The course will also discuss about common mistakes in scale-up, which will help them avoid making the same mistakes and increase the chances of being successful in scale-up.

This course addresses technical issues, associated with transforming a chemical process, from small scale (e.g. laboratory) to commercial operation. The teaching approach is methodology-oriented. It is designed to teach key technical concepts, key success factors, and methods to develop scale-up correlations and modeling to ensure successful scale-up and scale-down of chemical processes and equipment.

- ❖ Why is scale-up a mysterious art and so difficult?
- ❖ Correct definitions of successful scale-up
- ❖ Why do people fail to scale-up?
- ❖ Approaches in scale-up, Scale-up ratio, Major issues in scale-up
- ❖ Optimum scale-up ratio of various processes
- ❖ Overview of reactor scale-up methodology
- ❖ Key concepts of scale-up
- ❖ Etc.

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Qualifications:

- Managing Director of Global R&D Co., Ltd.
- Bachelor and Master degrees in Chemical Engineering from Kyoto University, Japan
- 14+ year experience in a refinery of a global oil company and an ethylene plant of a leading Thai petrochemical company
- Work experience in a technology team of a renowned US technology licensor, GTC Technology for refining and petrochemical industry
- A member of Elsevier Editorial Board ในสาขา Process and Plant Design (2014-2015) and an advisory board member of International Association of Certified Practicing Engineers (IACPE) (2015-2016)
- A Senior Member of American Institute of Chemical Engineers (AIChE)
- Invited lecturers and instructors for various technical seminars
- One of the first Thai chemical engineers to have published articles in 3 renowned chemical engineering monthly magazines in the US – i.e. Chemical Engineering Progress (by AIChE), Chemical Engineering Magazine, Hydrocarbon Processing
- Holds several papers on Scencedirect and technology patents
- Presented papers at AIChE 2006 Fall Meeting and was the first engineer of his Thai leading company to present technical knowledge at AIChE 2015 Spring Meeting: Ethylene Producers' Conference
- Invited expert for an IChemE Webinar

Registration fee (Include VAT 7%)

EIT-Members THB 3,500 per person

NON- Members THB 3,900 per person

Payment Method

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