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WEBINAR

Introduction to Process Failure Mode and Effect Analysis (PFMEA) for Chemical Manufacturing Industry

ORGANISED BY CHEMICAL ENGINEERING TECHNICAL DIVISION

SPEAKERS:

Ir. Ts. Lee Teck Lii &
Ts. Vincent Khaw Wei Chuen

09 SEPTEMBER 2021
THURSDAY
5.30PM - 7.00PM

Register online at www.iem.org.my

REGISTRATION:
IEM Members: RM15
Non-IEM Members: RM70

SYNOPSIS

The commencement of the industrial revolution began around the second half of the 18th century. The beginning of new industrial era transforms hand production process to machines, new chemical manufacturing, new iron production process, and the increasing use of steam power. Taking the advantages of industrial technology development, large-scale production of bulk chemicals was first started with the production process of sulphuric acid with the relatively less expensive production method and slowly leads to operation efficiency monitoring and overall performance improvement.

The foundation of the industrial culture leads to the birth of Lean Manufacturing and Six Sigma methodology. Ever since then, chemical giants such as Dow and DuPont starting to adopt lean concept and culture to constantly improve their process efficiency and lead the industry with innovate new idea and deployment approaches. The Process Failure Modes and Effects Analysis (PFMEA) is a detailed and quantitative method to identify the key potential errors in a process. This method is first developed by the US Military in 1950s and first implement in the private sector by Ford Motor company.

This webinar talk is meant to provide participant with the key concept of PFMEA and guide them to identify key potential errors in a chemical manufacturing process, understand the likelihood of the error occurrence, and generate action associate with the error to mitigate its impact quickly. At the end of the session, the participant should:

- Have basic understanding to identify failure modes in a process
- Have basic understanding to evaluate failure mode severity, likelihood of occurrence, quantify the risk, recommend action and document for reference.

SPEAKERS

Ir. Ts. Lee Teck Lii is a Professional Engineer and Professional Technologist with working experience in Oil and Gas Industries and also General Industries. He is currently served as a committee member at the Chemical Engineering Technical Division (CETD) at the Institution of Engineers Malaysia.

Ts. Vincent Khaw is a head of department of process engineering (PE) & lean six sigma (LSS) with working experience in consumer chemical manufacturing industry, particularly on fluid mixing and blending process. He currently leads the process and continual improvement project for Henkel (Shah Alam) that aims to improve safety, reliability, quality and efficiency of operating plant facilities. Ts. Vincent holds a BEng in Chemical Engineering and registered with Board of Engineers Malaysia (BEM), Institution of Chemical Engineers (IChemE, UK) and Malaysia Board of Technologist (MBOT). Ts. Vincent is also a qualified train-the-trainer (TTT) for lean six sigma (LSS).