

# Process Safety Engineering

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## Overview

Process safety engineering fundamentals are often neglected in the preparation of engineers. However, when engineering students move into industrial positions, within 8 hours on the job, significant efforts commence to make up for the gap between their education and information needed to perform work in a safe manner. Process safety is not the personal protection systems such as hard hats, safety glasses, and protection from falls. It is more, it is the overall designs in place to prevent or mitigate the loss of containment when flammable and toxic materials. It investigates scenarios to understand who will be affected by loss of containment as well as what property will be destroyed should a catastrophic event occur.

Course participants will learn these topics through lectures and hands-on experiments. Also case studies and assignments will be shared to stimulate research motivation of participants.

<b>Module</b>	<b>A: Process Safety Engineering : May 28 - Jun 1</b> <b>Number of participants for the course will be limited to fifty.</b>
<b>You Should Attend If...</b>	<ul style="list-style-type: none"><li>▪ Executives, Engineers and Researchers from manufacturing, service and government organizations including R&amp;D laboratories.</li><li>▪ Students at all levels (B. Tech / MSc. / M. Tech / PhD) and Faculties from reputed Academic institutions and Technical institutions.</li></ul>
<b>Fees</b>	The participation fees for taking the course is as follows: <b>Participants from abroad : US \$500</b> <b>Industry/ Research Organizations: Rs. 30000</b> <b>Academic Institutions: Rs. 10000</b> The above fee include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hr free internet facility. The participants will be provided with accommodation on payment basis.

## The Faculty



Prof. Ronald J. Willey is the Vice Chair for the Department of Chemical Engineering at Northeastern University, Boston, MA, USA. His degrees are BS in Chemical Engineering, University of New Hampshire (summa cum laude), and Ph.D. University of Massachusetts, Amherst, MA, USA. He has six years of industrial experience in the paper industry. He has 33 years of teaching experience at

Northeastern University and has done courses in process safety in Argentina, Taiwan, and Spain. He has organized faculty workshops in process safety at Chevron, Dow Chemical, Rohm and Haas, and BASF at various times during the past 20 years. He has received the Bill Doyle award for best paper at the Loss Prevention Symposium twice and was recognized by the AIChE (American Institute of Chemical Engineers) Safety and Health division with the Walter Miller award, the highest award in process safety for the AIChE. He is editor-in-chief for Process Safety Progress. His service includes Chairman (2017) of the Dedham Westwood Water District, secretary/treasurer of the Northeast Zone for the National Council of Examinations for Engineers and Land Surveyors, and is Vice Chair for the Commonwealth of Massachusetts Registration of Engineers and Land Surveyors. In 2016 he was Chair of the Global Congress of Process Safety held in Houston, Texas, USA..



Dr. Arvind Kumar is currently serving as an Assistant Professor in the Department of Chemical Engineering, National Institute of Technology (NIT), Rourkela, India. His major interests are in Industrial Safety & Pollution Abatement, Renewable Energy and Petroleum Refining Process.



Prof. Debi Prasad Tripathy is associated with Mining Engineering Department, National Institute of Technology (NIT), Rourkela, India. His areas of interest are Mining Environment & Safety Engg., Environmental Pollution Monitoring & Control, Mine Planning, Mine Economics

## Course Co-coordinators

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