

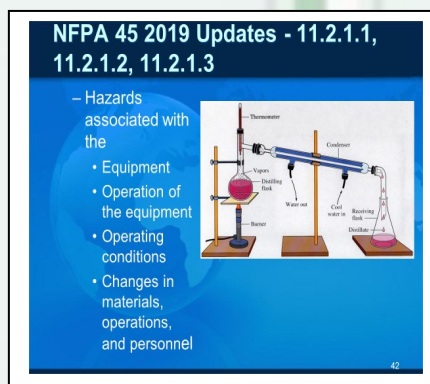
**Process Safety Concepts for Laboratory Inspections and Operations,  
includes NFPA 45 updates (New Course-First Time Presented)  
Approved for 6.5 Continuing Education Hours  
University of Illinois Chicago, School of Public Health**

**Course Description:**

This course is suited for the seasoned laboratory safety professional, Chemical Hygiene Officers, Chemical Hygiene Committee members, Laboratory Inspectors and the EHS professional who wants to broaden their knowledge of laboratory process safety concepts. This course will increase your ability to identify safety hazards and enhance your understanding of safe laboratory design, inspections, and process operations. 2020 students from over 60 college and universities with an overall rating of 4.8 out of 5.0. Attended Dennis's programs. **Customized course materials. Students will be able to submit questions prior to the class for discussion.**

**Course Topics:**

- Applying 1910.1450 App A - National Research Council Recommendations Concerning Chemical Hygiene in Laboratories
- Laboratory Inspections and NFPA – 45 – Updates
- Process Safety Concepts for Training requirements for Laboratory Inspectors,
- Building and Laboratory Ventilation, ANSI, OSHA, NFPA, ASHREA
- Operational Process Safety Concepts, Temperature, Pressure, Vacuum and Scale-up Operations, Bench top and Pilot Plant Operations,
- How to conduct a Risk based Laboratory Hazard and Risk Analyses - based on NFPA-45-2019, Standard Operating Procedures with a process safety approach.
- Learn how conduct advanced laboratory process safety inspections.
- Learn how to perform operational safety inspections **"the conditions and operations that occur daily in laboratory operations."**



Course material developed by Dennis A. Terpin, Ph.D., O.H.S.T, EMT-P, Dr. Terpin is Retired Senior Industrial Hygienist/Emergency Manager University of Illinois Chicago. Dennis is a Professional Development Speaker for BCSP, CHEMA, CHUMMC, ASSP, ACGIH, Lab Management Summits and the National Safety Council just to name a few. Dennis a member of ASTM International Technical Committee F23.65 on Personal Protective Clothing and Respiratory Protection/Equipment. Dennis has over 50 years of experience in the Occupational Safety and Health, Laboratory Safety, Process Safety and Emergency Management fields.

- **Improving Process Safety Culture**
- **Lack of laboratory operational hazards**
- **What can go wrong? (Hazard)**
- **How bad can it be? (Consequence)**
- **How often might it happen? (Likelihood)**
- **Are the proper safeguards in place?**
- **How can I better manage this risk? (Recommendations)**

**Comments included:**

- **Georgetown University** - Thanks very much, Dennis! Your presentation materials and discussions were excellent.
- **University of Toronto** - Very informative and I learned a great deal.
- **Brigham Young University** - Excellent job Dr. Terpin, especially liked the temperature, pressure, vacuum sections.
- **Dartmouth College** - The Laboratory inspector practical exercise was a great learning tool.
- **Massachusetts Institute of Technology**- Excellent Lab Safety Class taught by an instructor with real world laboratory and pilot plant experience.

**Dennis A. Terpin – Ua446@aol.com – 630-699-7171**