

Advancing Methods for Worker Exposure Evaluation and Judgements

March 11 & 13, 2025

8:30am - 12:00pm

Description: For effective exposure assessment, an industrial hygienist needs to exercise sound professional judgment. It is critical for the practitioner to have skills in how to interpret exposure monitoring data accurately and classify exposure levels into appropriate risk categories based on statistical analysis and accurate exposure judgment. This course highlights how to provide a well-documented rationale for exposure assessments, especially when data is limited or ambiguous.

Learning Objectives:

- Review the strategies and limitations of current workplace exposure assessments
- Define the studies to support why we need to advance exposure assessment approaches
- Describe why modeling tools are necessary to support exposure evaluation and judgement
- Explain how to best leverage sampling data to establish accurate exposure decisions
- Identify case studies using these approaches for workplace characterization and exposure assessment

Agenda:

March 11, 2025

- 8:30 Welcome - Dr. Marty Cohen, ScD, CIH, CSP, UW DEOHS Teaching Professor
- 8:45 AIHA's The Principles of Good Practice Framework,
Mike Johnson, CIH PE, Senior Industrial Hygienist, WA DOSH Voluntary Protection Program
- 9:30 Workplace Characterization & Similar Exposure Groups,
Mark Stenzel, Exposure Assessment Applications, LLC
- 10:15 Break
- 10:30 Worker Exposure Risk Ranking and Modeling Tools
Susan Arnold, PhD, CIH, Associate Professor, Division of Environmental Health Sciences,
University of Minnesota
- 11:15 Case Study – Compliance Approach, Effectiveness, and Potential for Error
Mark Stenzel, Exposure Assessment Applications, LLC
- 12:00 Wrap-Up

March 13, 2025

- 8:30 Improved Sampling and Analysis Strategies
Gurumurthy Ramachandran, PhD, MS, Professor, Environmental Health and Engineering, Johns
Hopkins Bloomberg School of Public Health
- 9:30 Program Implementation and Systematic Prioritization Improvement Process
Mark Stenzel, Exposure Assessment Applications, LLC
- 10:15 Break
- 10:30 Case Study – Comprehensive Assessment with Surveillance Monitoring, Leveraging Modeling and Risk,
Limitations and Benefits
Mark Stenzel, Exposure Assessment Applications, LLC

10:15 Break

11:15 Exposure Assessment Resources & Tools

Michael Johnson, CIH PE, Senior Industrial Hygienist, WA DOSH Voluntary Protection Program

12:00 Wrap Up- Marty Cohen, ScD, CIH, CSP, UW DEOHS Teaching Professor