### **GUIDE TO INDUSTRIAL HYGEINE**

### Course Description:

This course provides the students with an introduction to industrial hygiene. It addresses many workplace hazards: chemical, physical, and biological, with the primary emphasis being on hazard assessment. Topics such as qualitative versus quantitative assessment, hierarchy of controls and the role of the occupational hygienist are examined. Students obtain practical experience performing qualitative workplace assessments and the creation of a workplace exposure prevention program.

### Learning Outcomes:

Upon successful completion of this course the student will have reliably demonstrated the ability to:

1. Explain the importance of occupational hygiene.
2. Analyze and apply industrial hygiene strategies with respect to chemical, biological, and physical hazards.
3. Identify industrial hygiene standards, testing systems, and monitoring techniques.
4. Recognize, assess, and control chemical, biological, and physical hazards.
5. Apply the laws and legal threshold limit values around hazardous exposure.
6. Perform a workplace exposure assessment.
7. Access reliable on-line resources to identify health effects associated with occupational illness.

### Course Content:

Brief History of Occupational Hygiene
Occupational Hygiene Standards
Industrial Hygiene and monitoring techniques
Indoor air quality
Physical hazards
Noise in the workplace
Radiation
Temperature extremes
Biological Hazards
Toxicology Properties