

Indoor Air Pollution and Sick Building Syndrome

Time: 4 hours

Maximum Class Size: 10

Prerequisites: None

Course Description: The Environmental Protection Agency (EPA) ranks indoor air pollution as one of the top five air quality problems affecting the general population. Air quality poses greater problems to Americans than toxic waste dumps, emissions from industrial plants and pesticides used for farms. In this 4-hour LIUNA Training and Education course, participants will learn about the causes and symptoms of Sick Building Syndrome, how and why to perform work area monitoring and methods of sampling used to determine microbial contamination.

Goals/Objectives/Student Learning Outcomes:

- Define the terms: Sick Building Syndrome, spores, microbial contamination, aspergillus, bacteria, fungi, MP, mycotoxins, ODS, Penicillium, Stachybotrys Chartarum (Atra), trichothecene Mycotoxin, Virus
- List six causes of indoor air pollution
- Identify and describe the ideal environments for mold growth
- Identify at least two common symptoms associated with mold exposure
- Identify the routes of entry for fungi to enter the body
- List at least three reasons for performing work area monitoring and sampling
- List at least three methods of sampling used to detect and identify the presence of microbial contamination

Standards

- 29 CFR 1926.28 Personal Protective Equipment
- 29 CFR 1926.21 Safety Training and Education
- 1926.1101 Subpart Z: Toxic and Hazardous Substances

Classroom Rules and Procedures

- All classes begin at 6:30 am and end at 11:00 am
- Upon entering classroom, all participants must sign in and be seated by 6:30 am.
- Class will consist of a combination of lecture, video, demonstration, coached group exercises, individual exercises and assessment.

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- Students are required to report to class ready to work and maintain the provided PPE.

Textbooks/Readings/Materials

- LIUNA: *Indoor Air Pollution & Sick Building Syndrome* IG/PG
- DVD: “48 Hours” Invisible Killers and Silent Killers-Erin Brochovich
- Flip chart
- Markers
- *Indoor Air Pollution* Student Handout Packet

Personal Protective Equipment

- 10 pairs of gloves
- 10 pairs of safety glasses
- 10 pairs of earplugs
- 10 hard hats

Course Requirements

To receive credit for the course, participants must:

- Be present for full four hours
- Participate in all classroom exercises
- Pass a written exam

Course Policies

- Participants must be on-time and ready to work.
- Participants must return from breaks on-time.
- Participants must participate in each exercise and assignment
- Participants who are on “light duty” are not allowed to take this course due to the physically demanding requirements.

Assessment and Grading

Participants will be assessed on the following:

- All written exams must be passed with a score of 80% or above.

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Safety

Failure to maintain and use PPE may result in dismissal from the course.