

## Asbestos Awareness Syllabus

**Time:** 8 hours

**Maximum Class Size:** 20

**Prerequisites:** None

**Course Description:** This course is designed to empower the participant with the skills and knowledge to work safely, effectively and efficiently on an asbestos abatement job. Correct asbestos abatement techniques as well as safety and health information regarding this hazardous substance will be presented.

### Goals/Objectives/Student Learning Outcomes:

- Define the following terms and acronyms: ACM, EPA, Asbestos fiber, Friable asbestos-containing material, micron, non-friable asbestos-containing material, OSHA, PACM, PEL, SM, TSI, carcinogen, ingestion, inhalation, latency period, routes of entry, synergism, FEV1, FVS, NIOSH, PFT
- List six types of asbestos, as defined by OSHA
- List the two most common types of asbestos used in construction
- Explain the difference between friable and non-friable asbestos-containing material
- Know and understand the OSHA permissible exposure limit for asbestos
- Describe a Class I asbestos work activity
- Describe a Class II asbestos work activity
- Describe a Class III asbestos work activity
- Describe a Class IV asbestos work activity
- List the two major routes of entry for asbestos into the body
- Explain the relationship between smoking and exposure to asbestos
- List three diseases linked to occupational asbestos exposure and describe the symptoms of each disease
- Name the body organs affected by asbestos exposure and explain how asbestos affects each one
- List three protective mechanisms the body uses to get rid of asbestos fibers and explain how these mechanisms work
- List the three reasons for establishing a medical monitoring surveillance program
- List the five required elements of an initial/preplacement examination for asbestos abatement workers, the five required elements of an annual examination and two additional recommended tests

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- State the number of years an employer must keep the medical records of each employee
- List 10 legal rights workers have under the Occupational Safety Act of 1970
- List the seven responsibilities workers have under the Occupational Safety Act of 1970
- List seven steps workers should follow if they are punished for exercising any OSHA legal rights
- Explain the purpose of the following EPA standards:
  - NESHAP
  - AHERA
  - ASHARA

### **Standards Addressed:**

OSHA Asbestos Standard: 29 CFR 1926.1101

OSHA Subpart Z Toxic & Hazardous Substances: 1926.1101

### **Classroom Rules and Procedures**

- All classes begin at 6:30 am and end at 3:00 pm
- 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.
- Students are required to report to class ready to work and maintain the provided PPE

### **Textbooks/Readings/Materials**

- LIUNA Asbestos Awareness IG
- LIUNA Asbestos Worker PG
- Student Handout Packet (Handouts: 1-9)
- LIUNA PowerPoint: *Asbestos Awareness*

### **Tools/Equipment/Other Materials**

- Computer
- Projector
- Whiteboard or Flipchart
- Markers
- Highlighters

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### **Personal Protective Equipment**

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

### **Course Requirements**

To receive credit for the course, participants must:

- Be present for full eight 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

### **Assessment and Grading**

Participants will be assessed on the following:

- All written exams must be passed with a score of 80% or above.
- All hands-on exercises are graded on performance and participation. They are pass/fail and must be passed with a score of 80% or above.

### **Safety**

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