

## Asbestos Abatement Worker Refresher Syllabus

**Time:** 8 hours

**Maximum Class Size:** 20

**Prerequisites:** Asbestos Awareness & Asbestos Abatement Worker

**Course Description:** LIUNA's Asbestos Abatement Worker Refresher Participant Guide presents training information and other important aspects of what the participant must know to work effectively, safely and efficiently on the jobsite. It instructs the participant in correct asbestos abatement techniques and provides safety and health information regarding this hazardous substance. This refresher serves to update the participant who has already completed the 40-hour Asbestos Abatement worker course and needs recertification.

### 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
  - List the 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 materials.
  - 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.

## Asbestos Abatement Worker Refresher Syllabus

### Goals/Objectives/Student Learning Outcomes-continued:

- List two different types of purifying elements.
- Describe what particulate filters protect against
- Identify the characteristics of N, R, and P filter series designations.
- Identify the minimum efficiency levels for 95, 00, and 100 designated filters.
- List the four steps to take when a breakthrough occurs while wearing a respirator. Identify the reduction in exposure to a substance when wearing a respirator with specific Assigned Protection Factors (APFs).
- Explain the abbreviation MUC as it related to a respirator, and calculate the correct MUC for at least four of the five sample respirators.
- List two categories of respirators and explain the differences between them.
- Identify the minimum oxygen level needed in order to wear an APR.
- List the two major components of APRs.
- List the APF for four different respirators.
- List eight limitations of APRs.
- List the two types of atmosphere-supplying respirators.
- Explain the differences between the three delivery systems for breathing air:
  - Continuous flow
  - Demand
  - Pressure demand
- Define the following acronyms:
  - Clean room
  - Equipment room
  - HVAC
  - Shower room
  - Waste load out area
- List and explain four reasons for preplanning asbestos abatement operations
- List the twelve steps in preparing the work area
- Define the purpose of decontamination on an asbestos abatement project.
- List the elements of the decontamination chamber and explain the function of each.
- Explain the purpose and function of a negative pressure air unit; given scenarios of spaces, calculate the number of machines needed to meet air change requirements.
- Define the following acronyms:
  - Amended water
  - Encapsulation
  - Enclosure
  - Glove Bag
  - HEPA vacuum
  - NESHAP
- List the tools commonly used with the glove bag removal.
- Discuss the proper steps for a final cleaning.
- Describe the difference between bridging and penetrating sealants.
- List three advantages and seven disadvantages of encapsulation.
- List three advantages and seven disadvantages of enclosure.

## Asbestos Abatement Worker Refresher Syllabus

### Goals/Objectives/Student Learning Outcomes-continued:

- Define the following words and acronyms:
  - Aggressive sampling
  - Area sampling
  - Breathing zone
  - PCM
  - Personal sampling
  - PLM
  - Static sampling
  - TEM
- Explain how and why air sampling is done on an asbestos abatement project.
- List the two analytical methods used in final clearance of asbestos abatement projects.
- Explain the difference between static sampling and aggressive sampling.
- Describe bulk sampling, settled dust sampling, and wipe sampling methods.
- List and briefly describe the limitations of three analytical methods used in asbestos abatement.
- Explain the purpose for taking area samples from outside the work area (but inside the building) and from outside the building.

### Standards Addressed:

OSHA Asbestos Standard: 29 CFR 1926.1101

OSHA 1926.1101 Subpart Z: Toxic and Hazardous Substances

### 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 Abatement Worker Refresher* Instructor Guide
- LIUNA *Asbestos Abatement Worker* Participant Guide
- LIUNA *Asbestos Abatement Worker Refresher* Power Point
- DVD: *Work Area Prep*
- DVD: *Asbestos Abatement Techniques*
- *Asbestos Abatement Refresher* Student Handout Packet

## **Asbestos Abatement Worker Refresher Syllabus**

### **Textbooks/Readings/Materials-continued**

- *Asbestos Abatement Worker Refresher* Exam A & B and answer sheet
- Environmental Training Program Evaluation Form
- EPA Asbestos Abatement Worker Refresher Training Course Evaluation Form

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

- Computer
- Calculators-one for each students
- LCD Projector
- Flipchart/markers
- Whiteboard/expo markers
- Highlighters

### **Personal Protective Equipment**

- 20 pairs of gloves
- 20 pairs of Safety Glasses
- 20 pairs of Ear plugs
- 20 hard hats

### **Course Requirements**

In order 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
- Participants who are on "light duty" are not allowed to take this course due to the physically demanding requirements.

## **Asbestos Abatement Worker Refresher Syllabus**

### **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 activities and 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.