

## **Anthrax Remediation Worker Syllabus**

**Time:** 16 or 24 hours

**Maximum Class Size:** 12

**Prerequisites:** None

**Course Description:** The Anthrax Remediation course presents information that Laborers must know to work safely, effectively, and efficiently during remediation of anthrax contamination. Topics covered include health effects and characteristics of anthrax, medical testing and treatment for anthrax and personal protective equipment, decontamination, work area monitoring, sampling, work area preparation and remediation techniques.

### **Goals/Objectives/Student Learning Outcomes:**

- Define anthrax.
- List the three forms of anthrax exposure.
- List the symptoms associated with cutaneous, gastrointestinal and inhalation anthrax infection.
- Identify three medical tests available for evaluating if a person has been infected with anthrax
- Identify the recommended length of time workers should take antibiotics.
- List the four groups of people who are recommended for anthrax vaccination.
- List the three times medical testing for anthrax remediation workers is necessary.
- Define: Degradation, maximum use concentration, penetration, permeation, protection factor, qualitative fit test, quantitative fit test
- Write out the following abbreviation or acronyms: APR, CPC, MUC, PAPR, PPE, SCBA
- List the five types of respirators and their protection factors
- List the limitations of negative pressure air purifying respirators
- List the limitations of the full-face supplied air respirators.
- List the limitations of a self-contained breathing apparatus.
- List the PPE used in Level A
- List the PPE used in Level B
- List the PPE used in Level C
- Define the following: Clean room, decontamination, equipment room, shower room
- List the elements of the three-chamber decontamination unit and explain the function of each.

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- Working in small groups, construct a three-chamber decontamination unit per the guidelines of the worker manual.
- Given a full-face PAPR, a protective suit, boots, and gloves, simulate the decontamination process per the guidelines of the worker manual.
- List at least two reasons for performing work area monitoring and sampling at anthrax remediation projects.
- Name one sampling technique for detecting and identifying anthrax spores.
- Name one sampling technique used to measure the chemicals used to destroy the spores.

### **Standard Addressed**

- See:
  - OSHA: Anthrax in the Workplace
  - OSHA: Anthrax eTool

### **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: *Anthrax Remediation* IG & PG
- Pens, pencils, highlighters
- Computer, projector, markers, whiteboard and/or flipchart
- LIUNA: *Anthrax* Power Point
- Anthrax Remediation 10-question Exit Exam A or B
- Anthrax Remediation Answer Sheet

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

- HEPA vacuums
- Negative air filtration unit
- Replacement HEPA filters for negative air filtration unit
- GFCI unit (if necessary)

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- General purpose gloves
- Portable shower unit
- Utility knives
- Nylon brushes
- Extension cord
- Hudson sprayers

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

- Duct tape
- 6-mil bags
- Poly
- Spray glue
- PPE to conduct hands-on exercise

### **Personal Protective Equipment**

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

### **Course Requirements**

To receive credit for the course, participants must:

- Be present for full sixteen or twenty-four hours
- Participate in all classroom exercises
- Pass a written exam
- Pass a hands-on evaluation

### **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.

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### **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.