Work Area Preparation and Remediation Techniques Syllabus

Time: 4 hours

Maximum Class Size: 12

Prerequisites: None

Course Description: This 4-hour LIUNA Training & Education course looks at microbial contamination of chronically moist or water damaged building components, the methods used to prepare the work area for remediation, and the techniques used to conduct a microbial remediation. Participants will be able to identify and describe three elements of work area prep, name common chemicals used to destroy microbial organisms, the procedures to mix these chemicals, calculate a negative work area's volume and determine the appropriate number of air changes required. During the hands-on portion, participants will set up a negative pressure enclosure and demonstrate proper microbial remediation procedures.

Goals/Objectives/Student Learning Outcomes:

- Identify and describe at least three elements of work area preparation that should be completed before any microbial remediation can begin.
- List at least two of the most common chemicals used to destroy microbial organisms
- Describe the proper mixture for a bleach/water solution used during microbial remediation; given the proper materials, mix a bleach/water solution in the correct proportion
- Given a space, calculate its volume and determine the appropriate number of negative air units to achieve four air exchanges per hour
- Given a space, tools, and equipment, contain the space and set up a negative pressure enclosure
- Given the tools, materials, equipment and PPE and a mock work area, demonstrate remediation of microbial contamination

Standard

OSHA Respiratory Protection Standard: 29 CFR 1910.134

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

Textbooks/Readings/Materials

- LIUNA Work Area Preparation and Remediation Techniques IG/PG
- LIUNA Negative Pressure Units Power Point

Tools/Equipment/Other Materials

- Simulated asbestos containment area
- Rolling scaffold
- Step ladder
- Utility knives
- One or more negative air units with flex duct
- 6-mil polyethylene
- 4-mil polyethylene
- Duct tape
- Spray adhesive
- Staple gun and staples
- Aspirator bulb
- Detection smoke
- tubes

Personal Protective Equipment

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

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Course Requirements

To receive credit for the course, participants must:

- Be present for full four hours
- Participate in all classroom exercises
- Pass a hands-on 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.
- 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.