



## **Mold Remediation Technician**

### **Course Syllabus**

#### **Day One**

The Mold Remediation technician course is a two day introductory program for mold remediation technicians. The course includes classroom instruction on background information, health effects, mold remediation equipment & techniques, personal protective equipment and other safety hazards associated with mold remediation. It also includes hands-on training simulating mold remediation projects using the equipment and materials needed to set up engineering controls and containment for mold remediation projects.

#### **Chapter 1 - Background Information**

In this chapter we will discuss the fact that mold has been written about since the earliest days of written history and review a passage from the Old Testament of the Bible. We then discuss some basic microbiology and Fungi's place in the Kingdoms of Life. After reviewing basic microbiology we will get into more detail about reproductions of fungi and the factors that produce mold growth. We will finish by discussing the term particulate and describing the types of particulate found on mold remediation projects. Upon completion of Chapter one students should be able to do the following:

- Define Microbiology
- Discuss the Kingdoms of Life
- Recognize how mold grows
- Recognize factors that produce mold
- Describe particulate
- Explain High Efficiency Particulate Air
- Point out different atmospheric relationships

**BREAK**

## **Chapter 2 - Health Effects**

In this chapter we will introduce the terminology used when discussing the potential health effects for those living or working in damp buildings and buildings with fungal growth. We will also review the categories of health effects, routes of exposure and tips for technicians to avoid health problems while performing mold remediation. Upon completion of Chapter two students should be able to do the following:

- Recognize health effects related to dampness and mold
- Name the routes of exposure
- Separate categories of health effects
- Use tips for technicians to avoid exposure and illness

## **Chapter 3 - Mold Remediation Equipment & Procedures**

In this chapter we discuss the process of performing a mold remediation project. We start by reviewing the history of mold remediation and mold remediation guidelines. We continue by going through an overview of state regulations on mold remediation and reviewing the key definitions that are used when describing the equipment and processes that are part of mold remediation. We continue by going through an overview of a mold remediation project and then by breaking down the various phases of a project as follows. We finish chapter four with a discussion of post remediation evaluation/verification and project closure. Upon completion of chapter three students should be able to do the following:

- Discuss important definitions
- Recognize U.S. microbial remediation guidelines/standards and laws
- Outline phases of a mold remediation project
- Discuss important mold remediation equipment
- Contrast containment types and construction
- Recognize purpose and form of different decontamination chambers and procedures
- Explain methods for contents handling and remediation
- Summarize contamination removal methods
- Discuss biocides & antimicrobials agents
- Use appropriate cleaning tips and techniques
- Summarize the final cleaning process
- Discuss disposal issues and methods
- Identify proper HVAC system cleaning & restoration procedures
- Outline common clearance criteria/project closure protocols

## Day Two

### **Chapter 4 - Personal Protective Equipment**

In this chapter we discuss the head to toe Personnel Protective Equipment (PPE) recommendations for mold remediation projects. We start with a discussion of the Occupational Safety and Health Administration (OSHA) PPE regulations and introduction to PPE. We then get into detail about respiratory protection, protective clothing, gloves, footwear and eye protection on mold remediation projects. During the respiratory protection component of this chapter we will discuss the categories of respirators, seal checks, fit tests, medical evaluation, care and cleaning and respiratory protection programs. Upon completion of Chapter four students should be able to do the following:

- Differentiate between engineering controls and Personal Protective Equipment
- Define Protection Factor (PF) and differentiate between the categories of respiratory protection
- Identify the difference between Respirator Seal Checks and , Fit Tests
- Evaluate other types of Personnel Protective Equipment

### **HANDS ON MODULE**

The hands on portion of the mold remediation technician training is designed to provide technicians with training on using the equipment needed to perform proper mold remediation and to set up source, local and full containments during mold remediation projects. Attendees work with air filtration devices, HEPA vacuums and various containment materials to simulate one or more mold remediation projects. Following is an outline of the topics covered during the hands on training.

- Tailgate Safety Meeting
- Checklist for Mold Remediation Projects
- Using Thermo-hygrometers, Moisture Meters
- Using Air Filtration Devices and HEPA vacuums
- Containment area Prep/owner meeting
- Identify and use different types of tape (including painters, double back, vinyl, duct and specialty tapes) and fasteners (suspended ceiling hangers, alligator clips, staplers)
- Different types of polyethylene 4 mil, 6 mil, 10 mil, black, clear, fire retardant
- Measuring, cutting, hanging and seaming polyethylene barriers
- Construction of negative pressure containments and decontamination areas using wood (furring strips, 2"x4"s), PVC Zip Walls and other support techniques pre-fabricated and pop up containments entry and exit zippers, z-laps, slit entry and covering flap
- Installation, operation and maintenance of the following types of equipment
- Air Filtration Devices, Negative Air Machines, Scrubbers and HEPA Vacuums
- Decontamination areas and procedures

## **LUNCH**

### **HANDS ON MODULE (CONTINUED)**

#### **Chapter 5 – Additional Safety Hazards**

In this chapter we discuss safety hazards on mold remediation projects such as asbestos and lead paint issues, heat stress, hazard communication and insects, rodents and other animals. Each of these subjects is discussed with a focus on mold remediation and how for instance electric hazards are increased when cutting out drywall. Upon completion of chapter five students should be able to do the following:

- Recognize, prevent and respond to heat related issues
- Discuss potential electrical hazards on mold projects
- Discuss how asbestos and lead-based paint affect mold projects
- Recognize potential issues with insects, rodents and other animals on mold projects
- Summarize the key points about the Hazard Communication law
- Discuss other health and safety issues on mold projects

#### **Appendix Review - OSHA Mold Guidance**

During this portion of the course the instructor reviews the OSHA Mold Guidance document with the class. We discuss how the OSHA document incorporates information from the EPA guidance document “Mold Remediation in Schools and Commercial Buildings and the New York City Guidelines on the Assessment and Remediation of Indoor Mold.”

#### **MOLD WORKER QUIZ**

The mold remediation technician quiz is a 25 question multiple choice and true/false quiz that covers the key concepts of the mold remediation technician training course.