

PDH Academy

Dangerous Damp

Timed Outline

Course Description: Despite our best efforts to keep it out, water has found its way inside the building. This course examines the question of what to do next. Since abandoning the building to its eventual collapse, is not usually an option.

The material briefly examines design and construction methods of systems designed to withstand water penetration. An understanding of these systems, gives us a starting point for finding sources of intrusion, and a discussion of how to best repair them and prevent further damage. Sealing a failed envelope is the first step in remediation.

Once the source of the problem has been addressed, steps can be taken to reclaim full use of the built environment. Assessment of moisture damage must be done next, to best determine and prioritize steps to be taken toward repair or replacement of damaged components. Immediate and critical remedies are examined, as well as those which can be addressed after a couple days have passed. Then, for the sake of health, moisture driving the growth of mold must be found and eliminated, as well as the mold itself.

Because of its power, and the many paths it utilizes into our buildings, water intrusion with accompanying mold growth, is one of the most discouraging building maintenance issues to address. But we have enough accumulated experience from past battles, to handle it far better moving forward.

This course is intended to equip others with that knowledge.

Course Hours: 5 Hours

Course Availability: Online 24/7

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Course Outline and Learning Objectives

Module	Learning Objectives	Time
1. Course Introduction	<ol style="list-style-type: none"> 1. Learning Objectives 2. Foreword 3. Overview of Moisture Related Problems 	2 min 3 min 5 min 10 min
2. Definitions	<ol style="list-style-type: none"> 1. Terms and Definitions 	20 min 20 min
3. The Scope of the Problem	<ol style="list-style-type: none"> 1. Moisture Damage to Buildings 2. Monetary Loss Due to Moisture Problems 3. General Mold/ Moisture Intrusion 4. The Mold/Moisture Connection 5. Definition of Mold 6. Controlling Mold Growth by Controlling Moisture 	5 min 5 min 10 min 5 min 5 min 5 min 35 min
4. Before Building Damage Occurs	<ol style="list-style-type: none"> 1. Use of Rain Screens 2. Necessary Ventilation 3. Improving Air Quality and Ventilation 4. Addressing Moisture Problems in Various Building Systems 5. Maintaining Site Drainage 6. Maintaining Foundations 7. Maintaining Walls 8. Maintaining Roofing and Ceilings 9. Maintaining Plumbing Systems 10. Maintaining HVAC Systems 11. Making Your Home Weathertight 	5 min 10 min 5 min 10 min 5 min 5 min 5 min 5 min 10 min 10 min 5 min 75 min

5. Dealing With Building Damage From Moisture	<ol style="list-style-type: none"> 1. Testing and Remediation of Dampness and Mold 2. Testing for Contaminants 3. Inventory Damaged Materials 4. Inventory and Response to Ceiling Damage 5. Inventory and Response to Drywall/Plaster Damage 6. Inventory and Response to Carpet Damage 7. Inventory and Response to Electric Systems Damage 8. Inventory and Response to Furniture Damage 9. Inventory and Response to Paper/Records Damage 	5 min 5 min 5 min 5 min 10 min 10 min 5 min 5 min 10 min 60 min
6. Air Quality Concerns	<ol style="list-style-type: none"> 1. Air Quality in General 2. Levels of Indoor Air Pollution 3. Pollutant Sources 4. Identifying Air Quality Issues 5. Concerns about Air Quality 6. Health Issues Related to Indoor Air Quality 7. Health Concerns with Dampness 8. Changes in Indoor Air Quality Attributable to Mold 9. Air Quality in Schools 	5 min 1 min 3 min 3 min 5 min 5 min 5 min 2 min 5 min 34 min
7. What to do Before Mold Occurs	<ol style="list-style-type: none"> 1. Below Grade Space 2. General Building Condition 3. Doors and Windows 4. Maintaining HVAC Systems 	3 min 2 min 2 min 3 min 10 min
8. Dealing with Mold in the Air Stream	<ol style="list-style-type: none"> 1. Reiteration of Basic Facts 2. Controlling the Growth of Mold 3. General Prevention Strategy 4. Cleaning Up Mold 	5 min 3 min 10 min 15 min 33 min
9. Dealing with Other Pollutants in the Air Stream	<ol style="list-style-type: none"> 1. Dealing with Pollution at the Source 2. Cleaning Up Air in General 3. Measuring Levels of Radon 4. Dealing with Radon 5. Health Effects of Radon 6. Reducing Home Exposure to Radon 7. Built in Radon Resistance 	1 min 3 min 1 min 1 min 1 min 10 min 1 min 18 min

10. Summary	1. Summary	5 min 5 min
	<i>TOTAL TIME</i>	<i>300 min</i>