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### **How to take this course.**

1. Download and print the test questions.
2. Log in to your account with your ID and password.
3. Viewing your status page, scroll down and click on "[Click here to start this course.](#)"
4. Begin viewing the web pages. Refer to your printed test to find the correct answers. The questions track the web pages.
5. As you find the answers, circle them on your printed copy.
6. At the end of each section, you'll enter the quiz which is the same as your printed test. Refer to your circled answers when actually answering the quiz on the web.
7. Upon passing, you will proceed to the next section. If you failed to pass, you will be moved back to the beginning of that section for more review.



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### **Quiz 1**

1. The Authority Having Jurisdiction (AHJ) must approve or may even require \_\_\_\_\_ to be used in lieu of potable water for some applications.
  - stormwater runoff
  - captured nonpotable rainwater
  - potable gray water
  - potable black water
  - frozen gray water
2. Piping and components used in a rainwater catchment system must be \_\_\_\_\_.
  - plumbing contractor approved
  - owner approved
  - acceptable to the maintenance supervisor
  - manufactured locally
  - listed
3. Listed fittings are permitted to be used in rainwater catchment systems.
  - Yes, they are not only permitted, they are required.
  - Yes, they can be used, but they are not recommended.
  - No, they are not permitted for use.
  - No, they are not permitted unless specifically approved by the AHJ.
  - Yes, they should be used provided the property owner agrees.
4. The person(s) who design(s) rainwater catchment systems must be registered or licensed or meet the requirements of \_\_\_\_\_.
  - the property owner
  - the International Association of Plumbers and Mechanical Officials
  - the AHJ
  - an accredited state university
  - the state in which they reside

# UPC Chapter 16 Nonpotable Rainwater Catchment Systems

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5. A rainwater catchment system supplying drip irrigation to an orchard requires a licensed plumbing designer.
- Yes, this is always required.
  - No, this is not required if the AHJ approves the exception.
  - Yes, this is required if the irrigation system is accessible to the public.
  - No, this is not required provided the maximum storage does not exceed 360 gallons.
  - No, this is never required.

## Quiz 2

1. The rainwater catchment system maintenance log shall be maintained by the \_\_\_\_\_.
- installer
  - system designer
  - component manufacturer(s)
  - property owner or designated appointee
  - AHJ
2. The rainwater catchment system log book must indicate the \_\_\_\_\_ of inspection and maintenance of each system.
- frequency
  - results
  - likelihood
  - consequences
  - none of the answers provided
3. The required maintenance and inspection of rainwater catchment systems is the responsibility of the property owner \_\_\_\_\_.
- or the person who obtained the installation permit
  - and the system designer
  - unless the AHJ has a different requirement
  - provided they are qualified
  - for the first 5 years only
4. An operation and maintenance manual for rainwater catchment systems shall be supplied to the property owner by the \_\_\_\_\_.
- primary installer
  - component manufacturer(s)
  - plumbing contractor
  - AHJ
  - none of the answers provided

5. Which of the following is not required to be included in the system operation and maintenance manual?
- A detailed diagram of the entire system and the location of system components.
  - A method of contacting the installer and designer.
  - Details on deactivating the system for maintenance, repair, or other purposes.
  - Details on maintaining the required water quality as determined by the AHJ.
  - Instructions for operating and maintaining the system.

## Quiz 3

1. Rainwater catchment systems that are no longer in use, or \_\_\_\_\_ in accordance with Section 1601.5, shall be abandoned.
- fail to be maintained
  - were not installed
  - did not receive AHJ approval
  - don't have required warning signs posted
  - are not readily accessible
2. If only part of a rainwater catchment system is abandoned, then the only required action is to disconnect it from any remaining systems and bury it.
- True
  - False
3. An abandoned rainwater catchment system must be disconnected from remaining systems and then \_\_\_\_\_.
- removed and disposed of at an approved dumping site
  - salvaged for reusable and recyclable components
  - drained, plugged and capped in an approved manner
  - buried under no less than 18 inches of gravel and 24 inches of earth
  - none of the answers provided
4. A rainwater catchment system underground tank that has been abandoned must be removed.
- Yes, this is true.
  - Yes, but only after approval from the AHJ.
  - Yes, or it can be completely drained and filled with an approved material.
  - No, it is not permitted to be removed.
  - Yes, but not until it has been completely drained and filled with an approved material.

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5. Which of the following is NOT an approved material for filling an abandoned underground water storage tank?
- earth
  - sand
  - gravel
  - broken glass
  - concrete

## Quiz 4

1. Rainwater catchment water supply and distribution materials must comply with the requirements of the Uniform Plumbing Code for \_\_\_\_\_.
- drain materials inside a building
  - ferrous pipe plumbing systems
  - storm drainage piping
  - nonmetallic pipe water systems
  - potable water supply and distribution systems
2. According to Table 604.1, CPVC piping is acceptable for use as water distribution piping.
- True
  - False
3. Gutters and downspouts used in rainwater catchment systems must comply with UPC \_\_\_\_\_.
- Chapter 4 Plumbing Fixtures and Fixture Fittings
  - Chapter 6 Water Supply and Distribution
  - Chapter 8 Indirect Wastes
  - Chapter 11 Storm Drainage
  - Chapter 7 Sanitary Drainage
4. A nonpotable rainwater catchment system collection surface shall be constructed of a \_\_\_\_\_.
- flat, metallic surface
  - surface sloped at least 1 inch per foot
  - surface that easily sheds debris
  - hard, impervious material
  - nontoxic shingle or coating
5. The signs marking rainwater catchment systems are required to be \_\_\_\_\_.
- red with white letters
  - black with red letters
  - purple with white letters
  - purple with black letters
  - black with purple letters

## Quiz 5

1. The Uniform Plumbing Code does *not* specify how rainwater storage tanks are to be constructed.
- True
  - False

2. Rainwater storage tanks shall be constructed of solid, durable materials not subject to excessive corrosion or decay, and shall be \_\_\_\_\_.
- approved by a local water employee
  - airtight
  - buried underground
  - watertight
  - at least 5 gallons
3. Rainwater storage tanks installed above grade \_\_\_\_\_.
- are not permitted by the UPC
  - may be installed only at single-family dwellings
  - are permitted by the UPC
  - must be at least 18 inches above the ground
  - are required to be nonmetallic
4. Storage tanks installed above grade shall be of an opaque material, approved for aboveground use in direct sunlight, or \_\_\_\_\_.
- may be covered with dirt
  - must be installed in a basement
  - should be mounted on a rooftop
  - shall be shielded from direct sunlight
  - painted with a reflective coating
5. Rainwater storage tanks installed \_\_\_\_\_ shall be structurally designed to withstand anticipated earth or other loads.
- in basements
  - below grade
  - on commercial properties
  - adjacent to agricultural fields
  - none of the answers provided

## Quiz 6

1. Pumps serving rainwater catchment systems must be \_\_\_\_\_.
- rated as "heavy duty"
  - suitable for hazardous conditions
  - listed
  - sheltered from inclement weather
  - installed above grade
2. Pumps supplying water to water closets, urinals, and trap primers shall be capable of delivering not less than \_\_\_\_\_ residual pressure at the highest and most remote outlet served.
- 10 psi
  - 20 psi
  - 15 psi
  - 30 psi
  - 40 psi

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3. Where the water pressure in the rainwater supply system within a building exceeds 80 psi, a \_\_\_\_\_ shall be installed.
  - pressure-relief valve
  - pressure-reducing valve
  - backwater valve
  - check valve
  - needle valve
4. Devices and equipment used to treat rainwater to maintain minimum water quality requirements determined by the AHJ shall be \_\_\_\_\_ and approved for the intended application.
  - easy to clean
  - listed or labeled
  - standardized
  - laboratory tested
  - inspected every 3 months
5. Tanks and piping installed in locations subject to freezing must be provided with an approved \_\_\_\_\_.
  - drainage system
  - method of freeze protection
  - shelter
  - safety guard
  - electric warmer