

Certification: Residential Plumbing Inspector



Exam ID: P1

Scope:

The Residential Plumbing Inspector is responsible for verifying that the installation of the entire plumbing system is compliant with the codes and standards adopted by their jurisdiction. The Inspector's duties include but are not limited to the following: verifying the installation and testing of piping systems, protection of piping systems and building components, the minimum required fixtures, approved materials, approved fixtures, flow rates, pressures, volume and temperature, and protection of the potable water supply and distribution system. Other duties include verifying that all materials, joints, connections and appliances are of the approved type. Fuel gas piping combustion air and required venting are also included.

- 60 multiple-choice questions
- 2-hour limit
- Open book

01	General Requirements	14%
0101	<u>Permits</u> Determine when permits are required and issue permits.	1%
0102	<u>Piping System Protection</u> Inspect all piping systems to insure protection as required from corrosion, stress and strain, freezing, and physical damage.	3%
0103	<u>Piping System Installation</u> Inspect all piping systems for proper installation, support, sleeving, penetrations, and waterproofing of exterior openings.	4%
0104	<u>Building Component Damage</u> Inspect building components for damage due to installation of the plumbing systems.	3%
0105	<u>Testing</u> Verify that all required tests of installed piping systems are conducted.	3%
02	Fixtures	8%
0201	<u>Locations and Required Fixtures</u> Inspect for proper location and the minimum required fixtures.	1%
0202	<u>Materials and Fixture Approvals</u> Inspect for approved materials and fixture approvals.	1%
0203	<u>Installation of Fixtures</u> Inspect for proper installation of fixtures, waste receptors, appliances, and appurtenances, including clearances, access, and sealing.	3%
0204	<u>Flow Rates and Temperatures</u> Inspect for maximum and minimum flow rates and temperature control valves.	2%
0205	<u>Installation of Faucets, Fixture Fittings, and Accessories</u> Inspect for proper installation of faucets, fixture fittings, and accessories.	1%
03	Water Heaters	12%
0301	<u>Use and Installation of Materials and Appliances</u> Inspect for proper use and installation of materials and check for appliance approval.	2%

0302	<u>Service and Distribution and Piping</u> Inspect for clearances, locations, protection, pans, and seismic restraint.	3%
0303	<u>Valving, Discharge Piping, and Thermal Expansion</u> Inspect for required valving, T&P valve and discharge piping installation, thermal expansion requirements, and pipe sizing.	4%
0304	<u>Fuel Gas Piping, Combustion Air, and Venting</u> Inspect for proper sizing of fuel gas piping, combustion air requirements, and required venting.	3%
04	Water Supply and Distribution	21%
0401	<u>Materials Joints and Connections</u> Inspect for approved materials, joints, and connections.	3%
0402	<u>Service and Distribution Piping</u> Inspect the service and distribution piping for proper installation of cold and hot water delivery, identification, sizing, and valving.	7%
0403	<u>Water Supply and Protection</u> Inspect the potable water supply and distribution piping for proper protection against contamination.	6%
0404	<u>Pressure and Volume</u> Verify the minimum and maximum pressure and volume requirements.	3%
0405	<u>Potable Water and Water Treatment</u> Verify the requirements for potable water and installation of water treatment.	2%
05	Sanitary Drainage	23%
0501	<u>Materials, Fittings, Joints, and Connections</u> Inspect for approved materials and use of proper fittings, joints, and connections.	4%
0502	<u>Building Drains, Sewers, Branches, and Stacks</u> Inspect for proper sizing and installation of the building drain, building sewer, branches, and stacks.	8%
0503	<u>Backwater Valves, Sumps, Ejectors, and Cleanouts</u> Inspect for the proper installation of backwater valves, sumps, ejectors, and required cleanouts.	3%
0504	<u>Traps</u> Inspect for the correct type, size, design, location, and installation of traps.	5%
0505	<u>Indirect Waste Systems</u> Inspect indirect waste systems for air breaks or air gaps.	3%
06	Vents	22%
0601	<u>Materials, Joints, Connections, and Grades</u> Inspect for approved materials, joints, connections, and proper grades.	5%
0602	<u>Sizing</u> Inspect for the proper sizing of the venting system.	6%
0603	<u>Requirements, Methods, and Installation</u> Inspect for the minimum venting requirements, methods, and installation.	11%