Certification: Commercial Plumbing Inspector 2015

Exam ID: P2

- 60 multiple-choice questions
- 2-1/2- hour time limit
- Open book

Scope:

The responsibility of a Commercial Plumbing Inspector is to verify the design, installation and inspections for all commercially installed plumbing systems complete with their fixtures, equipment, appurtenances, and appliances. The Inspector shall also be responsible toverify the installation, design, and inspections for all storm water systems, special waste systems, and all non-flammable medical andnon-medical oxygen piping systems and compliance with the International Plumbing Code and the standards of the local jurisdiction.

Responsibilities and duties shall include but not be limited to the verification of the following: proper pipe sizing, installation, design, and testing for the DWV system, potable and nonpotable water supply and storage systems; the installation of all fixtures, appurtenances, and appliances; the installation of all regulated safety devices, water heater installation, and appurtenances; the installation, design, and protection of all specialty fixture that serve special functions and the connections to the DWV and water supply systems; the design, pipe sizing, and testing for the storm drainage system; the design, installation of all special piping and storage systems for non-flammable medical gases and non-medical oxygen systems; and that all permitting, documentation, and approved drawings have been filed and completed.

01 General Requirements **8%**

0101 Piping Protections 5%
Inspect all piping systems to insure protection as required from corrosion, stress and strain, freezing, and physical damage.

0102 Piping Installation, Support, Sleeving, and Penetrations 3%
Inspect all piping systems for proper installation, support, sleeving, penetrations (fire, structural, etc.), and waterproofing of exterior openings. Verify that all required tests of installed piping systems are conducted.

02 Fixtures **15%**

0201 Fixture and Material Approvals 2%
Inspect for approved materials and fixture approvals.

0202 Installation, Location, Clearance, and Access 5%
Inspect for proper installation of fixtures including accessibility, waste receptors, appliances, and appurtenances, including clearances, access, and sealing.

0203 Flow Rates 3%
Inspect for maximum and minimum flow rates and temperature control valves. Inspect for proper installation of faucets, fixture fittings, and accessories.

0204 Accessibility 5%
Inspect for installation of accessible fixtures, including clearance, height, spacing and arrangements.

03 Water Heaters **12%**

0301 Installation Requirements 5%

Inspect for proper use and installation of materials, listing, and labeling, including clearances, locations, protection, pans, and seismic restraint, and check for appliance approval. Inspect for required valving, T&P valve and discharge piping installation, and thermal expansion requirements.

0302 Gas Piping, Combustion Air, and Venting 7%
Inspect for proper sizing of fuel gas piping, combustion air requirements, and required venting.

04	**Water Supply and Distribution**	**18%**
0401	Materials, Joints, and Connections Inspect for approved materials, joints, and connections.	3%
0402	Identification, Sizing, and Valving Inspect the service and distribution piping for proper installation of cold and hot water delivery including minimum and maximum pressure and volume requirements, identification, sizing, valving, insulation and safety.	5%
0403	Protection Against Contamination and Treatment Inspect the potable water supply and distribution piping for proper protection against contamination. Inspect installation of water treatment systems.	5%
0404	Nonpotable Water Distribution Systems Inspect the nonpotable water distribution systems for proper installation	5%
05	**Sanitary Drainage**	**13%**
0501	Materials and Fittings Inspect for approved materials and use of proper fittings, joints, and connections.	3%
0502	Sizing of System Inspect for proper sizing and installation of the building drain, building sewer, branches, and stacks.	4%
0503	Valves, Sumps, Ejectors, and Cleanouts Inspect for the proper installation of backwater valves, sumps, ejectors, and required cleanouts.	3%
0504	Indirect Waste Inspect indirect waste systems for air breaks, air gaps, interceptors, condensate drains, pumps, and tanks.	3%
06	**Vents**	**15%**
0601	Materials, Joints and Connections, and Grade Inspect for approved materials, joints, connections, and proper grades.	5%
0602	Sizing, Method, and Installation Inspect for proper sizing and the minimum venting requirements, methods, and installation.	10%
07	**Traps, Interceptors, Separators, Special Piping, and Storage Systems**	**9%**
0701	Installation Requirements Inspect for proper use, installation, and connection of traps, interceptors, and separators.	5%
0702	Chemical Treatment, High Temperature, and Neutralization Systems Inspect chemical treatment, high-temperature, and neutralization systems.	4%
08	**Storm Drainage**	**5%**
0801	Materials Sizing and Installation Inspect roof drains, conductors, and leaders for proper use of approved materials, sizing, and installation.	3%
0802	Sub-soil Sub-drains Inspect sub-soil and building sub-drains, sumps, and pumping systems.	2%
09	**Health Care Plumbing**	**5%**
0901	Materials and Installation Inspect for approved materials and fixtures. Inspect for proper installation of fixtures, including accessibility, waste receptors, appliances, and appurtenances including clearances, access, and sealing.	2%

0902 Service and Distribution Piping 3%

Inspect the service and distribution piping for proper installation of cold and hot water delivery, identification, sizing, valving, insulation, and safety requirements. Inspect the potable water supply and distribution piping for proper protection against contamination.