

Certification: Fuel Gas Inspector

Exam ID: FG



Scope:

The Fuel Gas Inspector is responsible for verifying the design installation and inspections of fuel gas piping systems and equipment, gas-fired appliances and venting systems, and to ensure compliance with the codes and standards of the local jurisdiction. The inspector's responsibilities and duties shall include but not be limited to verification of: proper pipe sizing, installation, methods of protection, testing and materials used for various types of fuel gas systems; combustion air and venting requirements for all gas-fired equipment and appliances; approval of all gas-fired equipment, appliances, and operations; and proper clearances of fuel gas-fired equipment and appliances.

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

01	General Requirements and Administration	27%
0101	<u>Authority of Inspector</u> Verify extent of authority of the inspector, including right of entry and disconnection of service utilities.	3%
0102	<u>Permitting and Documentation</u> Verify proper permitting and project documentation.	3%
0103	<u>Clearance</u> Verify clearance to combustibles of as well as access to and labeling of: appliances, equipment, chimneys, vents, and connectors.	8%
0104	<u>Guards</u> Confirm that location and guards are correct and installed per requirements and listing conditions.	10%
0106	<u>Clearance Reduction Method</u> Verify clearance reduction method.	3%
02	Inspection and Testing	7%
0201	<u>Procedures</u> Verify test and detection procedures and durations.	4%
0202	<u>Purging</u> Verify purging.	3%
03	Venting Materials, Installation, and Sizing	17%
0301	<u>Materials</u> Identify proper venting materials.	3%
0302	<u>Installation</u> Verify installation of venting and connectors.	7%
0303	<u>Sizing</u> Verify vent and connector sizing.	7%

04	Piping Systems, Materials, Installation, and Sizing	22%
0401	<u>Materials</u> Verify proper piping materials and identification.	3%
0402	<u>Installation</u> Verify proper installation of gas piping, including underground piping systems, support, protection, fittings, valves, and appliance connectors.	9%
0403	<u>Pressure and Flow Control</u> Identify working pressure and flow control, including regulator venting.	3%
0404	<u>Sizing</u> Verify proper gas pipe sizing.	7%
05	Combustion Air	20%
0501	<u>Volume</u> Verify minimum required indoor volume for use of combustion air.	3%
0502	<u>Openings</u> Determine opening sizes and locations to connect indoor spaces.	3%
0503	<u>Sizing - Combustion Air</u> Verify combustion air sizing and ducts.	7%
0504	<u>Sizing - Exterior Openings</u> Determine exterior opening sizes and locations.	7%
06	Types of Gas and Specialty Gas Systems	7%
0601	<u>Installation - Gas Systems</u> Verify installation of piping, tanks, cylinders, and containers for gas systems, and conditions for conversion of fuel source.	3%
0602	<u>Installation - Specialty Systems</u> Verify installation and testing of generation, collection, distribution, and venting systems for specialty gases such as hydrogen and compressed natural gas.	4%