



REMARKS OF STEWART O'BRIEN EXECUTIVE DIRECTOR OF THE
PLUMBING FOUNDATION OF THE CITY OF NEW YORK, INC. AT A
PUBLIC SERVICE COMMISSION STACKHOLDER CONFERENCE
REGARDING AMENDING 16 NYCRR PART 255, OCTOBER 21,
2014, NEW YORK CITY

I am Stewart O'Brien, Executive Director of the Plumbing Foundation of the City of New York Inc. The Plumbing Foundation of the City of New York, Inc. is a clearinghouse and educational forum for the plumbing industry. The Plumbing Foundation is a nonprofit association of licensed contracting firms, engineering associations, manufacturers, and suppliers whose mission is to ensure the public health through the enactment and enforcement of safe plumbing codes. In connection with that mission we regularly meet with legislative and regulatory bodies that pass laws and promulgate regulations which affect the plumbing industry.

Thank you for the opportunity to comment on the proposed amendments to 16 NYC RR Part 255. While the proposed amendments would change various procedures, I would like to focus my prepared remarks to just one area – prohibiting licensed firms from doing repairs alterations on the small length of pipe extending from the first accessible fitting after a gas service pipe enters a building to the meter.

First, a little background on how, for decades, gas piping in New York City has been safely installed, repaired and maintained by licensed plumbers, and monitored and inspected by utilities and government agencies. The utility brings the service line from the gas main into the building. At that point, the licensed master plumber installs, maintains and repairs the gas piping from the first accessible fitting inside the building (see Exhibit A, Point B on the attached illustration) to each individual gas fixture throughout the building (Point E on the illustration). The NYC Department of

Buildings has jurisdiction, inspects and monitors all the gas piping from the meter outlet (Point D on the illustration) to gas fixtures. There is a run of pipe, in most cases less than 10 feet, between the first accessible fitting and the meter outlet (from Point B to D) where the licensed plumber installs, repairs, and tests the pipe and provides an affidavit to the utility that it is in compliance with the same Building Code inspection and testing requirements as all the piping from the meter outlet to the rest of the building (see Exhibit B – applicable sections from Con Edison’s “Blue Book”). It is that short run of pipe, in most cases less than 10 feet, that is the focus of these amendments.

Adopting the language of Federal Rules on this issue (49 CFR Part 192 – Transportation of Natural And Other Gas By Pipelines – Minimum Federal Safety Standards) the proposed PSC amendment would, for the first time, prohibit licensed master plumbers from repairing and maintaining that short run of pipe unless:

- 1) they have a contract with the applicable utility
- 2) they are “operated qualified” by the utility and
- 3) subject to drug testing

A few comments - -

One, we understand that the PSC is required by federal mandate to expand the definition of service line to include the short length of pipe between the first accessible fitting to the meter outlet. We have no concerns regarding expanding that definition. Rather, our very serious concern is the imposition of very onerous prerequisites regarding who would now be allowed to perform this work. We understand that, while the PSC may be mandated to accept the expanded definition of “service line”, the PSC does have the authority to provide alternate safety requirements in lieu of the 3

prerequisites of the federal rule. Shortly, we will discuss why the PSC should adopt such an alternative rule.

Two, the proposed amendment only applies to repair and alteration work, not new construction. If it is safe for the Federal Rule and the PSC to allow the new installation of this short run of piping to be continued to be performed by licensed plumbers, why would that same standard not apply to alteration work?

Three, even if the proposed Rule was adopted as is, almost all the gas piping in the building would still be installed, repaired and altered by licensed master plumbers. As previously stated, if the Rule were adopted it would only impact a very, very short run of gas piping. Is there a legitimate rationale to create two levels of qualifications for gas work inside a building – one for the vast majority of gas work from the meter downstream and a second one for the short run of gas piping inside the building leading to the meter? We suggest that would be an unflattering example of unnecessary bureaucracy.

Four, why is there any need for licensed master plumbers to be in “contract” with a utility? If the people performing the work are adequately qualified, why would a licensed entity need to have a contract with the utility? We respectfully suggest that it is the role of government to decide who is qualified to perform certain work in order to assure safety but mandating business relationships is unnecessary and anti-competitive.

Five, the cost to small businesses would be onerous. The proposed additional requirement that workers be “operator qualified” would cost licensed master plumbers thousands of dollars in fees and

lost time. We understand that the operator qualification course, which is really directed to street gas main and service lines, costs thousands of dollars per enrollee and many days of instruction.

Six, New York City licensed master plumbers already do this piping and continue to be qualified to do so. The New York City Plumbing Code (PC 202) defines “plumbing” as the “...installation, maintenance, extension of all... gas piping within or adjacent to any structure...” The New York City Building Code Section 28-408.1 makes it unlawful for any person to “...perform plumbing work unless such person is a licensed master plumber or working under the direct and continuing supervision of a licensed master plumber.” The New York City Building Code Section 28-408.3.1 provides that in order to become a licensed master plumber a person must have 7 years’ experience*, two years of such experience must have been as a registered journeyman with the City. Completion of a registered apprenticeship program or 5 years experience under the supervision of a NYC licensed master plumber is required to become a registered journeyman (28-409.1). Attached as Exhibit C are the Work Processes (10,000 hours) and Related Instruction Criteria for New York State Approved Apprenticeship Programs which contain many hours devoted to gas piping work. In addition to the basic experience requirements, applicants for a NYC master plumber license must pass a written exam and then a practical exam, administered by City government. Applicants are then subject to a background investigation by the NYC Department of Investigations and provide significant general liability and workers compensation insurance before any work can proceed.

Furthermore, the New York City Building Code Section 28 105.1 makes it unlawful for any gas work to proceed unless and until a permit for such work has been issued by the NYC Department of Buildings. The New York City Fuel Gas Code Chapter 4 provides detailed installation methods and acceptable sizing and materials for gas piping. In particular, Section 406 details that all gas piping be

**fewer years’ experience may apply if applicant has other credentials (professional engineer, registered architect, etc.)*

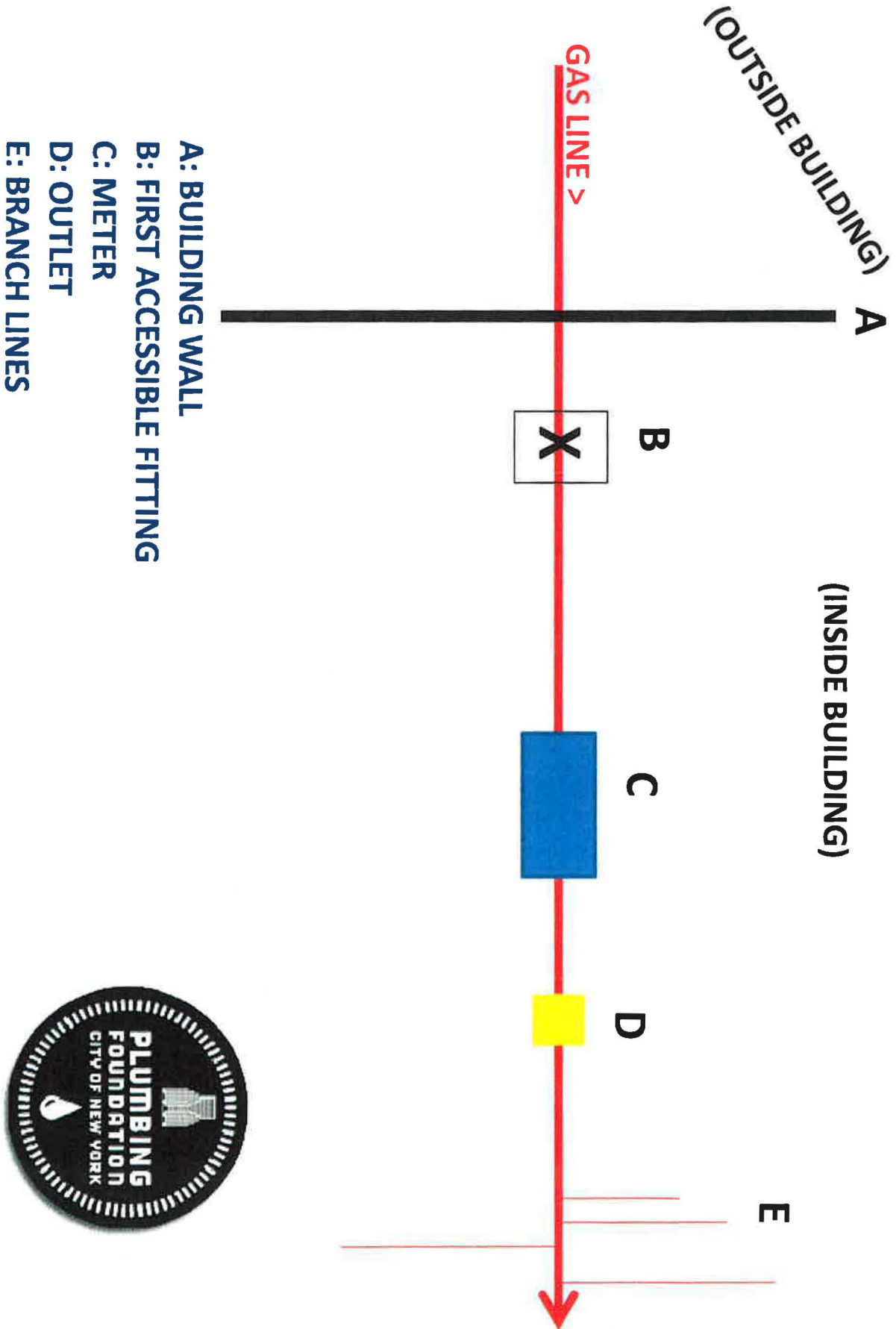
tested, how it is to be tested, which pipe must be welded and subject to radiographic testing, the qualifications of gas welders, etc. (see Exhibit D). The Department of Buildings oversees the inspection of the tests and welds before signing off on the work and authorizing the utility to initiate or restore gas service.

The regulatory and monitoring system over gas work in New York City is simple yet effective. It ensures that the only people who perform the work are highly qualified and that each individual job is checked and inspected before gas is initiated or restored. The system is so effective that we cannot recall any instance in the last 30 years of a gas accident attributed to the work of a licensed master plumber in New York City.

Accordingly, rather than the onerous and unnecessary requirement of operator qualification, drug testing and contractual relationship with a utility, we respectfully suggest that the PSC substitute, as equivalent, that this short run of pipe be repaired, altered and maintained only by licensed master plumbers who are qualified by municipalities to perform gas work.

We are, of course, available to answer any questions or provide further documentation.

EXHIBIT A





GAS MAIN

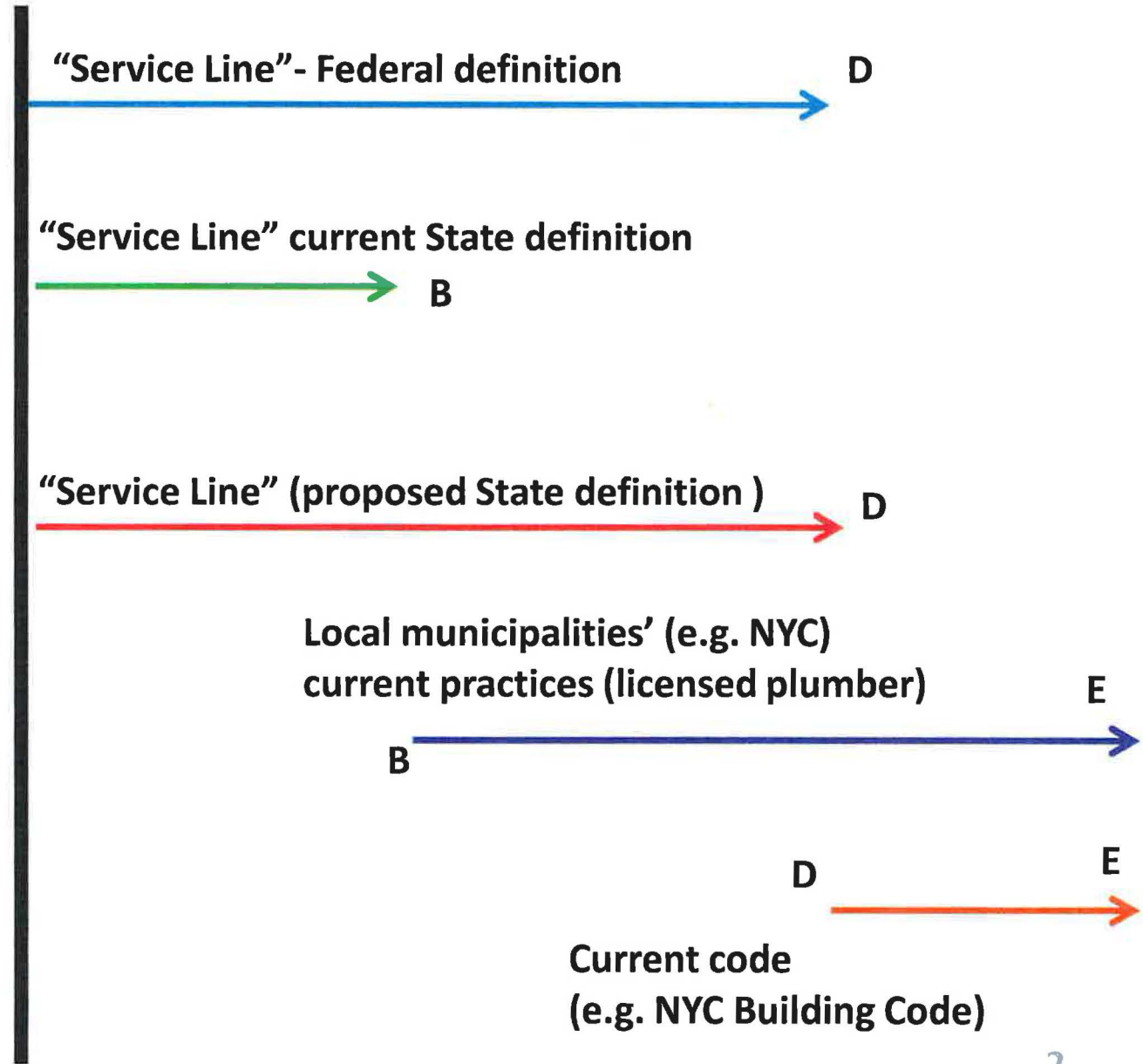


EXHIBIT B

A Customer Guide to Natural Gas Service Installation

Consolidated Edison Co. Inc.

J. **Responsibilities**

The Customer, his/her Agent and/or Contractor bears the responsibility of maintaining all gas piping and associated equipment in a safe operating condition.

K. **Customer Pipe Size and Adequacy**

Proper sizing of customer pipe and ensuring adequacy for current and future use is the sole responsibility of the customer. The customer's Engineer or Licensed Plumbing Contractor should assist the customer in determining that the natural gas piping installation will have adequate capacity for future use.

L. **Un-Metered Connection (Flat)**

Un-Metered (Flat) connections are prohibited and can result in a termination of service.



M. **Piping Certification and Permit(s)**

Gas service installations require municipal certification that the gas piping system has been pressure tested and permit documentation that the building's gas service is authorized for fuel supply. It is the owner /contractor's responsibility to make the appropriate arrangements and notify Con Edison when such action has been acceptable for gas turn-on appointment. In order to avoid a delay to the gas service completion date, please obtain and conform to the following:

- a) Installation must comply with the current applicable Con Edison Specifications.
- b) The following are examples of the service work requiring city and local certification permits:

1. **In New York City**

- **Distribution Piping** - Gas Service Authorization: NYC-Buildings Information System (BIS) aka "Blue Card"
- **Meter Piping** – A NYC Meter Piping Pressure Test Verification Affidavit will be required for the following:
 - i. The installation of any new, alteration of existing, or complete replacement of gas piping.
 - ii. Installation of new gas appliances and the replacement of a gas water heater or a gas fired boiler with the capacity of 350,000 BTU or less where the existing gas appliance gas wing valve is not moved and no gas piping is required. No gas permit is needed. A written report is due to the DOB in 30 days.
 - iii. Restoration of service discontinued (cut-off) due to a fire or other conditions or where all the gas service to a building has ceased for over six (6) months.



The NYC Gas Meter Pressure Test Verification Affidavit form can be found on the Con Edison Energy Services Resource web-site located at <http://www.coned.com/es/resources.asp> or refer to Exhibit - B (pg. 74).

2. **In Westchester County**

- **Distribution Piping** – Gas Service Authorization. For Municipalities that do not issue formal Gas Blue Cards, a Westchester County Distribution Piping Pressure Test Verification Affidavit will be substituted.
- **Meter Piping** – Requires a Westchester County Gas Meter Piping Pressure Test Verification Affidavit.

New York City
Gas Meter Piping
Pressure Test Verification

(Note: This Affidavit does NOT replace a Blue Card)

Exhibit-B

AFFIDAVIT

This certifies that the gas meter piping installed between the gas service head valve and the gas meter connection.

Located at: _____

Lot No: _____

Block No: _____

Owner: _____

Has successfully passed a leakage test for _____ hour(s) at pressure of _____ psig

On _____
(Date)

TEST PERFORMED BY

Plumber's Signature: _____

License No.: _____

Plumber Contractor: _____

Accepted for Con Edison By: _____

Date: _____

Note: Form is to be used for company documentation by the performing plumber of record for all oil-to-gas conversion, natural gas generators, upgrades and or swing over work, certification.

EXHIBIT C



STATE OF NEW YORK
DEPARTMENT OF LABOR

APPENDIX A

PLUMBER
D.O.T. CODE 862.381.030

This training outline represents a minimum standard for work processes and related instruction. Changes in technology and regulations may result in the need for additional on-the-job or classroom instruction.

WORK PROCESSES

	<u>Approximate Hours</u>
A. <u>Proper Use and Care of all Tools Connected with the Trade</u>	500
B. <u>Rigging and Material Handling</u> <ol style="list-style-type: none">1. Safe unloading of material.2. Use of ladders, scaffolding.3. Use of power lifts, personnel lifts.	200
C. <u>Identification of Grades, Types and Appropriate Uses of Various Piping Materials</u>	300
D. <u>Installation of Piping for Waste, Soil, Sewage, Vent, Leader Lines, Hot Water Lines, Hot and Cold Water for Domestic Purposes and Gas for Domestic Purposes</u> <ol style="list-style-type: none">1. Planning and marking layout.2. Cutting structural openings as required3. Cutting and threading pipe.4. Pipe bending.5. Pipe joining.6. Caulking of joints.7. Connection to outside water, gas and sewage lines.8. Inspection of pipe system with pressure gauges.	3,500
E. <u>Soldering of Piping System</u> <ol style="list-style-type: none">1. Soft soldering (various types)2. Hard soldering (silver-bearing solders)3. Brazing.	600
F. <u>Welding Connected With the Trade</u>	600
G. <u>Assembly, in Position, and Connection of Fixtures and Appliances Used in Plumbing and Drainage Systems</u>	700

<u>Plumber – continued</u>	<u>Approximate Hours</u>
H. <u>Water Purification and Sewage Disposal</u>	600
I. <u>Familiarization With all Tools, Equipment and Replacement Parts Used in Repair and Service; Maintenance of Proper Inventory</u>	500
J. <u>Maintenance and Repair of Plumbing Systems (Including Lead and Tin Pipe Repair)</u>	2,000
K. <u>Temperature Controls: Installation, Service and Repair (optional)</u>	400
L. <u>Gas Piping</u>	50
M. <u>Water Heaters</u>	50
<hr/>	
Total Hours 10,000	

Apprenticeship work processes are applicable only to training curricula for apprentices in approved programs. Apprenticeship work processes have no impact on classification determinations under Article 8 or 9 of the Labor Law. For guidance regarding classification for purposes of Article 8 or 9 of the Labor Law, please refer to <http://www.labor.state.ny.us/workerprotection/publicwork/PDFs/Article8FAQS.pdf>

APPENDIX B
PLUMBER
RELATED INSTRUCTION

Safety and Health

- OSHA Construction Safety
- OSHA 10-Hour Construction Course – if required for Public Work
- Scaffold Safety
- Drug and Alcohol Awareness
- Material Safety Data Sheet (MSDS)
- First Aid-Minimum 6.5 hours every 3 years

Asbestos Awareness – minimum 4 hours (see attachment)

Industrial History and Labor Relations (20 hours)

- History and background (6 hours, 1st year)
- Current laws and practices (14 hours, 2nd year)

History of Plumbing

Organization of Plumbing Industry

Mathematics Applied to Plumbing

Elementary Drawing/Drafting for Plumbers

Building Plan and Blueprint Reading for Plumbers: Fundamentals and Advanced

Basic Building Construction

Trade Theory and Science

- Physics Applied to Plumbing
- Chemistry Applied to Plumbing
- Bacteriology for Plumbers
- Basic Electricity*
- Plumbing Laws, Regulations and Ethics
- Plumbing Materials
- Fixtures and Appliances
- Water Supply
- Sewage Disposal
- Water Pollution in Plumbing Systems (including back-flow prevention and cross-connection control devices)
- Soil and Waste Lines
- Venting

Plumber Related Instruction – continued

Trade Theory and Science – continued

Welding

Gas Installations

Business Aspects of Plumbing

Sexual Harrassment Prevention Training –minimum 3 hours

Other Related Courses as Necessary

A Minimum of 216 Hours of Related Instruction are Required for Each Apprentice for Each Year.

*If Work Processes “K” is chosen.

ATTACHMENT TO APPENDIX B

Asbestos Awareness

This course must be delivered by one of the following:

1. A provider currently approved by the New York State Department of Health to deliver asbestos safety training.
2. A person holding a current Asbestos Handler certificate from the New York State Department of Labor in the title of: Inspector, Supervisor, Project Monitor, Management Planner, or Project Designer.
3. Anyone otherwise approved by the New York State Education Department.

Minimum course contents must include the following:

1. Definition of asbestos
2. Types and physical characteristics
3. Uses and applications
4. Health effects:
 - Asbestos-related diseases
 - Risks to families
 - Cigarette smoking
 - Lack of safe exposure level
5. Employer-specific procedures to follow in case of potential exposure, including making a supervisor or building owner immediately aware of any suspected incidental asbestos disturbance so that proper containment and abatement procedures can be initiated promptly.

Notwithstanding the above course requirement, employers are advised that they must also be in compliance with New York State Department of Labor Industrial Code Rule 56 at all times.

Employers are further advised, and must advise all apprentices, that completion of the above course requirement does not authorize any person to remove, encapsulate, enclose, repair, disturb, or abate in any manner, any friable or non-friable asbestos, asbestos containing material, presumed asbestos containing material, or suspect miscellaneous asbestos containing material.

twice the maximum allowable operating pressure, but not less than 100 psig (689 kPa gauge), for a minimum of 1 hour.

- 1.5. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.

2. Meter piping shall be pressure tested in accordance with the requirements of the serving utility. These requirements shall be either the same as those for testing distribution piping in numbered paragraph 1 of this section or, if different, the piping shall be certified by the local utility as being tested in compliance with their requirements.
3. Notwithstanding the above, all factory applied coated and wrapped pipe shall be pressure tested at a minimum of 90 psig (621 kPa gauge). For testing, the piping shall be filled with air or an inert gas, and the source of pressure shall be isolated before the pressure readings are made. All test duration time periods are to be measured after stabilization of testing medium. Fresh water may be used as the test medium only where the required test pressure exceeds 100 psig (689 kPa gauge).

406.4.1 Minimum standards for nonmercury gauges.

1. This section establishes minimum standards for nonmercury gauges to test gas piping, drainage and vent systems.
2. Each gauge shall meet the following requirements:
 - 2.1. The gauge shall be manufactured and used in accordance with ASME B40.100, which incorporates ASME B40.1 and ASME B40.7, and the manufacturer shall provide with the gauge a written statement that the gauge is manufactured in accordance with such ASME standard;
 - 2.2. The gauge shall be labeled with the name of the manufacturer;
 - 2.3. The gauge shall be kept in a padded separate rigid box and the manufacturer's instructions for use and protection of the gauge shall be complied with;
 - 2.4. The units of measurement "psig" shall appear on the face of the gauge; and
 - 2.5. The gauge shall be kept in good working order.

406.4.2 Analog gauges used to measure pressure in the magnitude of 3 psig (20 kPa gauge). Each analog gauge used to measure pressure in the magnitude of 3 psig (20 kPa gauge) shall meet the following requirements in addition to satisfying the minimum requirements set forth in Section ‡ 406.4.1:

1. The face of the gauge shall not be smaller than 2¼ inches (57 mm) in diameter;
2. The gauge shall have a minimum of 270 degree (5 rad) dial arc;

3. The gauge shall be calibrated in increments of not greater than one-tenth of a pound;
4. The range of the gauge shall not exceed 5 psig (34.5 kPa gauge) when a 2¼-inch (57 mm) diameter gauge is used;
5. The 1/10 psig (0.69 kPa gauge) interval on the gauge shall not be smaller than one-tenth of an inch (2.5 mm) of arc;
6. The gauge shall be provided with an effective stop for the indicating pointer at the zero point;
7. The gauge shall be protected from excessive pressure with a shutoff valve and prior to using the 5 psig (34.5 kPa gauge) the snifter valve shall be tested with a tire gauge to determine the magnitude of pressure; and
8. The gauge shall have a calibration screw.

406.4.3 Analog gauges used to measure pressure in the magnitude of 5 psig (34.5 kPa gauge). Each analog gauge used to measure pressure in the magnitude of 5 psig (34.5 kPa gauge) shall meet the following requirements in addition to satisfying the minimum requirements set forth in Section 406.4.1:

1. The face of the gauge shall not be smaller than 2¼ inches (57 mm) in diameter;
2. The gauge shall have a minimum of 270 degree (5 rad) dial arc;
3. The gauge shall be calibrated in increments not greater than one-fifth of a pound;
4. The range of the gauge shall not exceed 10 psig (69 kPa gauge) when a 2¼ inch (57 mm) diameter gauge is used;
5. The one-fifth interval on the gauge shall not be smaller than one-tenth of an inch (2.5 mm) of arc;
6. The gauge shall be provided with an effective stop for the indicating pointer at the zero point;
7. The gauge shall be protected from excessive pressure with a shutoff valve and prior to using the 10 psig (69 kPa gauge) the snifter valve shall be tested with a tire gauge to determine the magnitude of pressure; and
8. The gauge shall have a calibration screw.

406.4.4 Digital gauges used to measure pressure in the magnitude of 3 psig (20 kPa gauge) and higher. Each digital gauge used to measure pressure in the magnitude of 3 psig (20 kPa gauge) and higher shall meet the following requirements in addition to satisfying the minimum requirements set forth in Section 406.4.1:

1. The gauge shall have a minimum reading of 1/100 of a psig (69 Pa), and
2. An extra charged battery shall be readily available for immediate use with the gauge.

406.4.5 Witnessing tests of gas-piping systems. Tests of gas piping systems in accordance with this code shall be witnessed by department plumbing inspectors, or

