



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>	200
1. Safe unloading of material.	
2. Use of ladders, scaffolding.	
3. Use of power lifts, personnel lifts.	
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>	3,500
1. Planning and marking layout.	
2. Cutting structural openings as required	
3. 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.	
E. <u>Soldering of Piping System</u>	600
1. Soft soldering (various types)	
2. Hard soldering (silver-bearing solders)	
3. Brazing.	
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</u> – continued	<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
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	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, 1<sup>st</sup> year)
- Current laws and practices (14 hours, 2<sup>nd</sup> 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.**