

# PLANT MAINTENANCE- PLUMBER & STEAMFITTER

## APPENDIX A

O\*NET CODE 47-2152.00

This training outline is 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 training.

### WORK PROCESSES

	<b>Approximate Hours</b>
<b>A. Maintaining, repairing, replacing plumbing systems per applicable plumbing code(s)</b>	<b>3200</b>
1. Sewer work	
2. House Drainage	
3. Venting	
4. Cold water supply and distribution	
5. Hot water supply and distribution	
6. Fixtures	
<b>B. Maintaining, repairing, replacing hot water heat systems</b>	<b>800</b>
1. Gravity systems	
2. Forced circulation- 1 and 3 pipe systems	
<b>C. Maintaining, repairing, replacing steam heat systems</b>	<b>800</b>
1. 1 pip	
2. 2 pip	
3. Vapor	
4. Vacuum	
<b>D. Maintaining, repairing, replacing, connecting lead pipe, block tin pipe, carbonic gas pipe and sheet lead work</b>	<b>400</b>
<b>E. Welding in connection with the pipe fitting industry</b>	<b>1000</b>
<b>F. Maintaining, repairing, replacing piping, and hanging and fitting units and fixtures for air conditioning, cooling and refrigeration work</b>	<b>400</b>

<b>G. Maintaining, repairing, replacing, and placing process and power piping, pneumatic tube pipe work</b>	<b>400</b>
<b>H. Maintaining, repairing, replacing, setting, erecting, and placing pipe for oil burning units, including package units</b>	<b>400</b>
<b>I. Setting, erecting, and placing piping for use with instrument measurement devices, thermostatic controls, gauge boards, and other controls used in connection with plant work.</b>	<b>400</b>
<b>J. Troubleshooting, repairing, servicing, dismantling plumbing and piping throughout the plant</b>	<b>1400</b>
<b>K. Working on refrigeration and air-conditioning systems</b>	<b>800</b>
1. Maintaining, servicing, repairing, and setting refrigeration and air-conditioning systems and their components, including compressors, pumps, meters, pneumatic and hydraulic controls, and piping.	
<b>Approximate Total Hours</b>	<b>10,000</b>

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 <https://dol.ny.gov/public-work-and-prevailing-wage>

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## APPENDIX B

### RELATED INSTRUCTION

#### **Safety and the Workplace**

1. Safety and Accident Prevention
2. Asbestos Awareness – minimum 4 hours (see attachment)
3. Sexual Harassment Preventing Training – must comply with Section 201-g of the Labor Law
4. First Aid – minimum 6.5 hours every 3 years

#### **Trade Theory and Science**

1. History of Plumbing
2. Organization of Plumbing Industry
3. Mathematics Applied to Plumbing
4. Elementary Drawing for Plumbers
5. Plan Reading for Plumbers
6. Plumbing Materials and Practical Training
7. Fixtures and Appliances Generally Used
8. Physics Applied to Plumbing
9. Bacteriology for Plumbers
10. Chemistry Applied to Plumbing
11. Water Sources
12. Sewage Disposal
13. Water Pollution in Plumbing Systems
14. Plumbing Code
15. Soil and Waste Lines
16. Venting
17. Refrigeration and Air Conditioning

144 hours of Related Instruction are required for each apprentice for each year.

Appendix B topics are approved by New York State Education Department.

## 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:
  - a. Asbestos-related diseases
  - b. Risks to families
  - c. Cigarette smoking
  - d. 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.**