

SPRINKLER FITTER

APPENDIX A

O*NET CODE 47-2152.01

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

	Approximate Hours
A. Overhead Piping Installations	5,000
1. Wet Pipe System.	
a. Exposed piping.	
b. Concealed piping.	
c. Hydrostatic test.	
2. Dry Pipe System.	
a. Exposed piping.	
b. Concealed piping.	
c. Air or hydrostatic test.	
3. Deluge and Pre-Action systems.	
a. Spray, CO2 and Foam systems.	
4. Standpipe and Hose Equipment.	
5. Sprinkler Heads.	
6. Special Piping Installation.	
a. Window, Cornice and Water Curtain System.	
b. Anti-Freeze System.	
B. Control Devices, Trimming, Alarm Installation and Drains	1,250
1. Mechanic, Electric and Pneumatic Devices.	
2. Section and Zone Control Valves.	
3. Fire Department Siamese Connections.	
4. Shut Down and Refill Systems.	
C. Underground Piping Installations	1,000
1. Post Indicator Values.	

- 2. Hydrants.
- 3. Special types of underground piping.
 - a. Universal or Mechanic Joint Pipe.
 - b. Transits or Other Special Type Pipe.
- 4. City Connections.
 - a. Wet Connections Under Pressure.
 - b. Dry Cut-Ins.

D. Installation System Supply 875

- 1. Tank Connections
 - a. Gravity tanks (discharge, fill, heating and overflow).
 - b. Pressure tanks (discharge, fill and air).
- 2. Fire Pumps (Manual or Automatic).
 - a. Suction and discharge.
 - b. By-Pass.
 - c. Hose Connections and Relief.

E. Repair and Remodeling Work of Sprinkler Systems 1,375

- 1. Flushing.
- 2. Service and Maintenance.
- 3. Hydrostatic and Air Testing.
- 4. Sprinkler System Repair.
- 5. Sprinkler System Inspection.
- 6. Care and Use of Tools.

F. Ladder, Scaffolds and Lifts 200

- 1. Constuction and Use.
- 2. Safe Operation Practices.

G. Insurance Inspection and Reports 100

H. Owner's Instruction on Care and Maintenance 100

I. Receiving, Distributing and Shipping of Materials 100

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

SPRINKLER FITTER
APPENDIX B
RELATED INSTRUCTION

Safety and Accident Prevention

1. General
2. Trade (Including identification and handling of hazardous chemicals and material, OSHA and EPA regulations/procedures, fall protection, blood borne pathogens).
3. OSHA 10-Hour Construction Course – if required for Public Work.
4. Asbestos Awareness – minimum 4 hours (see attachment)
5. First Aid 6.5 hours minimum every 3 years
6. Sexual Harassment Prevention Training – must comply with section 201-g of the Labor Law)

Industrial History and Labor Relations

History of Sprinkler Fitting

Organization of Sprinkler Fitting Industry

Trade Mathematics for Sprinkler Fitters

Drawing/Drafting for Sprinkler Fitters (using computers, if available)

**Plan and Blueprint Reading for Sprinkler Fitters:
Fundamentals and Advanced**

Trade Theory and Science

1. Use and Care of Tools
2. Materials of the Trade
3. Soldering and Brazing
4. Cutting and Welding
5. Rigging and Signaling
6. Basic Electricity
7. Sprinkler Systems Installation
8. Automatic Sprinklers

9. Hydraulics
10. Sprinkler Systems Water Supply
11. Types of Fire Suppression Systems
12. Special Application Sprinkler System
13. Sprinkler System Alarms
14. Economics of the Sprinkler Industry
15. Technical Reports
16. Layout (using computer if available)
17. Local Plumbing Codes and Regulations as they apply to Sprinkler Fitting
18. Human Relations or Customer Service

Other Related Courses as necessary

A Minimum of 144 Hours of Related Instruction is 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.