

POINTER, CAULKER & CLEANER

APPENDIX A

O*NET CODE 47-4099.00

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

	Approximate Hours
A. Ladders, Scaffolding and Platforms	400
1. Safe layout of sidewalk detours.	
2. Safe use of ladders.	
3. Selecting and using ropes, cables and knots.	
4. Assembling, rigging and working on scaffolds and platforms (including sectional steel scaffold and “swing” or suspended scaffold).	
5. Hoisting materials and equipment.	
B. Cleaning Masonry	1,200
1. Safe use, care and maintenance of tools and equipment.	
2. Cleaning with water.	
3. Sandblasting.	
4. Grinding.	
5. Chemical washing, protection of adjacent building fabric- use of “acid stop” liquid masking.	
6. Etching.	
7. Pressure cleaning.	
8. Mixing and applying poultices and hydrosilica.	
C. Pointing Masonry	1,200
1. Safe use, care and maintenance of tools.	
2. Removing deteriorated mortar as needed: hand methods, power tool methods.	
3. Mixing mortar; matching composition and color of existing mortars.	
4. Tuckpointing and striking joints.	

5. Dry packing.

D. Caulking and Grouting Masonry **1,200**

1. Safe use, care and maintenance of tools and equipment.
2. Removing old caulking.
3. Mixing and applying solvents and primers.
4. Mixing and applying sealants (oil base, butyls, neoprenes, acrylics, polysulfides, urethanes, and silicones).
5. Using backer rods.
6. Masking.
7. Mixing and applying grouts: mask grouting, tape grouting.
8. Bagging.
9. Waterproofing; dampproofing; colorless water repellents.

E. Concrete Repair **200**

1. Removal and preparation.
2. Cleaning rebar; using primers for concrete and steel.
3. Dry packing; preparing and applying epoxy and other non-sag patches.
4. Forming and pouring.
5. Shotcrete and gunite techniques (optional).

F. Masonry Repair **1,200**

1. Cutting and removing decayed or damaged masonry elements.
2. Cutting, matching and patching all masonry materials (tile, stone, marble, stucco, etc.)
3. Reinforcing stone with dowels; epoxy injection techniques.
4. Brick and lintel replacement.
5. Stone repair and use of "Dutchman".
6. Terra cotta repair.

G. Welding and Cutting **150**

H. Miscellaneous **450**

1. Casting and molding.
2. Applying exterior insulation.
3. Repairing, sealing, replacing terra cotta and stone roofing materials.

4. Installing, repairing, replacing flashing.
5. Coating decks, including application of elastomeric coatings.

Approximate Total Hours **6,000**

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>

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APPENDIX B

RELATED INSTRUCTION

Safety

1. Ladder Safety
2. Scaffold Rigging Safety (electric and rope)
3. Pipe Scaffold Safety
4. Fall Protection
5. Handling, Storage and Disposal of Chemicals
6. All Applicable OSHA and EPA Regulations, Standards and Rules OSHA 10-Hour Construction Course – if required for Public Work
7. Asbestos Safety:
 - a. If apprentice will do any handling of asbestos:
 - i. Successfully complete a course approved by the New York State Department of Health for “Asbestos Handler” and obtain, and keep current, an “Asbestos Handler (Worker)” certificate from the New York State Department of Labor.
 - b. If apprentice will do no handling of asbestos:
 - i. Asbestos Awareness – minimum 4 hours (see attachment)
8. Alcohol and Drug Awareness
9. First Aid (6.5 hours every 3 years)
10. Sexual Harassment Prevention Training – must comply with Section 201-g of the Labor Law

Blueprints and Sketching

1. Blueprint Reading
2. Trade Drawing

Mathematics

1. Masonry Math
2. Estimating Materials and Costs

Rigging and Material Handling

1. Ropes, Knots and Splices

2. Pipe Scaffold Set-up
3. Swing Scaffolds and Basic Rigging
4. Rigging and Using the Boatswain Chair
5. Using Hand Signals
6. Hoisting Techniques

Trade Theory and Science

1. Masonry Building Units
2. Identifying Kinds of Brick and Stone
3. Masonry Construction: Bonds, Joints and Mortars
4. Details of Construction
5. Preserving Buildings
6. Introduction to Tools and Equipment
7. Basic Brickwork
8. Advanced Brickwork
9. Concrete Block Masonry
10. Building Cleaning with Chemicals
11. Pressure Cleaning
12. Sandblasting
13. Etching
14. Grinding
15. Using Poultices and Hydrosilica
16. Diagnosing Masonry Problems
17. Finding and Treating Moisture Problems
18. Repairing Deteriorated Surfaces and Building Parts
19. Mortar Mixing (Types and Color)
20. Joint Preparations
21. Pointing
22. Caulking
23. Masking and Grouting
24. Waterproofing
25. Concrete Restoration
26. Restoration and Repair of Brick
27. Lintel Removal and Replacement

28. Terra Cotta Removal, Repair, Replacement
29. Repairing Stone and Terra Cotta with Epoxy
30. Limestone Repair
31. Resetting Coping Stones and/or Tiles
32. Using Pre-Mixed Patch Compounds
33. Replacing Pre-Cast Stone
34. Cutting Steel with Gas Torches
35. Mold Making and Casting
36. Copper Soldering of Flashing
37. Repairing Quarry Tile Decks
38. Finishing Pre-Cast Units

Industrial and Labor Relations (20 hours)

1. History and Background (6 hours, 1st year)
2. Current Laws and Practices (14 hours, 2nd year)

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.