

GLAZIER

APPENDIX A

O*NET CODE 47-2121.00

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. Tools and Equipment	500
1. Shop Training Techniques	
2. Scaffolding Techniques	
3. First Aid and Safety	
4. Field Blueprint Reading	
5. Reading of Specifications	
6. Rigging and Material Handling	
B. Glazing Types of Openings	500
1. Glazing of wood and metal sashes	
2. Glazing of tube doors, partitions and other types of openings	
3. Glazing Installations using putty, moldings, rubber, plastic, gasket settings, sealants, and mastics	
C. Setting of All Types of Sashes	1,200
1. Curtain Wall	
2. Window Wall	
3. Revolving Doors	
4. Ribbon Window Systems	
5. Structural Glazing	
6. Suspended Glazing	
D. Setting of all Types of Glassing	1,800
1. Plate, Prism, Beveled, and Protecting Glass	
2. Panels and Window Glass	
3. Mirrors of all types	

4. Wire Glass, Ribbed and Heat Absorbing Glass	
5. Ground, Colored, Figured	
6. All other types of Opaque Glass	
7. Tempered Glass and all types of Insulating Glass Units for Solar Energy system	
8. Window Panels and similar types of Insulated Glass	
9. All Plastic or Other Similar Materials when used in Place of Glass	
10. Setting or Glazing with Putty, Molding, Rubber, Gaskets Setting, Sealants	
11. Skylights, Doors, Frames, Stone, Wall Case Showcases, Bookcases, Sideboard, Partitions, and Fixtures	
12. Temporary, Permanent, On or for Building in the course of Construction, Repair or Replacement	
E. Fabrication and Prefabrication of Doors, Frames and Tube Work	700
1. Prefabricaton Units and Fabricated Units	
2. Fabrication in Shop or On the Job Site	
3. Setting Shower Doors and Tub Enclosures	
F. Setting All Types of Multiple Glazed	300
G. Setting All Types of Door, Aluminum and Automatic, Hinges, Hardware, Closers, Locks, Exit Devices, Thresholds, Etc.	700
H. Handling and Use of all Products Associated with Glass Industry	100
I. Miscellaneous Glazing	200
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>

GLAZIER
APPENDIX B
RELATED INSTRUCTION

Safety and Health

1. Fundamentals (4 hours, 1st year)
2. Trade Safety (12 hours, 2nd year)
3. OSHA 10-Hour Construction Course – if required for Public Work
4. First Aid (6.5 hours every 3 years)
5. Sexual Harassment Prevention Training – must comply with section 201-g of the Labor Law

Asbestos Safety:

1. If apprentice will do any handling of asbestos:
 - a. 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
2. If apprentice will do no handling of asbestos:
 - a. Asbestos Awareness – minimum 4 hours (see attachment)

Blueprint Reading and Sketching

1. Elementary Blueprint Reading and Sketching
2. How to read specifications
3. Layout of templates

Mathematics

1. Fundamentals of arithmetic (including fractions and decimals)
2. Measurement
3. Estimating (materials)

Industrial History and Labor Relations (20 hours)

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

Trade Theory

1. Basic building construction
2. History of the glazing industry
3. Modern glass manufacturing processes
4. Composition and properties of modern glass and glass substitutes
5. Pressure differential/pressure equalization

Trade Science

1. Care and use of glazier's tools
2. Materials of the trade
3. Fabrication of templates
4. Practical glass cutting and polishing procedures
5. Cutting and handling laminated glass
6. Applications of cements, putties, mastics, adhesives
7. Sealants
8. Typical mountings for the installing of glass
9. Fastening devices used in various installations
10. Trade hardware
11. Practices of store front erection
12. Structural framing
13. Structural glass installation
14. Handling and installing large glass panes
15. Transits and levels
16. Welding and metal cutting

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.