



STATE OF NEW YORK
DEPARTMENT OF LABOR

APPENDIX A

BRICKLAYER & MASON

D.O.T. 861.381-018

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

	<u>Approximate Hours</u>
A. <u>Tools and Equipment</u>	150
Care and safe use of tools and equipment including:	
1. trowels	
2. brick hammer	
3. plumb rule	
4. scaffolding	
5. cutting saws	
6. welding equipment	
B. <u>Laying Masonry</u>	3,000
1. Laying out work from plans, blueprints, or specifications	
2. Mixing mortar	
3. Building corner leads, or using corner poles (masonry guides)	
4. Stretching line to guide courses of masonry units	
5. Spreading bed of mortar	
6. Laying various types of masonry units	
7. Aligning courses vertically and horizontally	
8. Removing excess mortar	
9. Cutting and sawing masonry units	
10. Installing door and window lintels	
11. Repairing masonry units; replacing missing units	
C. <u>Laying Out and Constructing Bonds (optional)</u>	1,000
1. Common bond (American)	
2. Flemish bond	
3. English bond	
4. Garden wall bonds	

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|----|---|-----------|
| D. | <u>Working with Joints</u> (optional)
Working with various types of joints, such as: | 400 |
| | 1. flush (cut off) | |
| | 2. struck | |
| | 3. weatherstruck | |
| | 4. slicker | |
| | 5. concave | |
| | 6. beaded | |
| E. | <u>Laying Stone</u> | 450 – 550 |
| | 1. Laying out work from plans, blueprints, or specifications | |
| | 2. Mixing mortar | |
| | 3. Spreading bed of mortar | |
| | 4. Laying first stone | |
| | 5. Laying additional courses of mortar and stone | |
| | 6. Aligning stones vertically and horizontally | |
| | 7. Anchoring stones to a wall by welding or bolting | |
| | 8. Constructing trim, sills, arches and coping (optional) | |
| F. | <u>Pointing, Cleaning, and Caulking</u> | 150 |
| | 1. Pointing brick and stone, cutting and raking joints | |
| | 2. Cleaning stone, brick, and structural tile (water, acid, sandblast) | |
| | 3. Caulking stone, brick, and glass block | |
| G. | <u>Installing Building Units</u> | 525 |
| | 1. Cutting and setting structural tile | |
| | 2. Cutting, setting, and pointing of special masonry units | |
| | 3. Blockarching | |
| | 4. Mixing mortar, cement, and patent mortar; spreading mortar; bonding and tying | |
| | 5. Building footings and foundations | |
| | 6. Plain exterior brickwork (straight wall work; backing up brickwork) | |
| | 7. Building arches, coins, columns, piers and corners | |
| | 8. Planning and building chimneys, fire places, flues; and floors and stairs | |
| | 9. Installing building masonry panels | |
| | 10. Laying paving brick | |

H.	<u>Fireproofing</u>	225
1.	Building party walls (partition tile, gypsum blocks, glazed tile)	
2.	Standardized firebrick	
3.	Specialties	

	Total Hours	4,500 – 6000*

*Depending upon whether some or all optional components are completed.

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

BRICKLAYER & MASON

RELATED INSTRUCTION

Safety

- Occupational safety
- Material labels and data sheets
- Eye, lung and ear protections
- Drugs and Alcohol
- Handling heavy materials
- OSHA 10-Hour Construction Course – if required for Public Work

Asbestos Awareness – minimum 4 hours (see attachment)

First Aid – minimum 6.5 hours every 3 years

Industrial and Labor Relations

Sexual Harassment Prevention Training (minimum 3 hours)

Math

- Basic math and measurement
- Construction geometry
- Estimating materials

Blueprints

- Blueprint reading
- Sketching

Physical Science

Trade Theory and Practice

- Tools and equipment: use and care
- Scaffolds
- Materials characteristics
- Layout (from drawings)

Bricklayer & Mason Related Instruction – continued

Trade Theory Practice – Continued

- Mixing mortars
- Spreading mortar
- Laying bricks to line
- Cutting brick
- Corner layout and erection
- Laying walls and corners
- Expansion joints
- Erecting a circular corner
- Laying out story poles and batter boards
- Applying masonry insulation materials
- Pointing masonry
- Cleaning masonry
- Caulking masonry
- Cleaning, sealing and finishing
- Laying stone
- Laying flemish and dutch bond
- Arch construction
- Blockarching
- Firebox construction
- Laying pilasters
- Brick piers
- Building masonry chimneys
- Building footings and foundations
- Building coins and columns
- Laying paving brick
- Welding
- Fireproofing
- Cutting, setting and pointing special masonry units
- Cutting and setting rubblework
- Erecting masonry panels

Other related courses as necessary

A total of 540 hours of related instruction is required for each apprentice.

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.