



STATE OF NEW YORK
DEPARTMENT OF LABOR

APPENDIX A

CARPENTER
(Time-Based)

D.O.T. CODE 860.381.022
O*NET CODE 47.2031.01

EFFECTIVE
APPRENTICE TRAINING
DEC 02 2016
CENTRAL OFFICE

As Revised for New York City District Council of Carpenters Local 212 JATC

This training outline represents minimum standards for work processes and related instruction. Changes in technology and regulations may result in the need for additional on-the-job or classroom instruction.

WORK PROCESSES

Approximate Hours

- | | | |
|----|--|-------------|
| A. | <u>Tools and Materials</u> | 350 - 500 |
| | <ol style="list-style-type: none">1. Care for, clean, safely tools, measuring devices, and trade-related equipment and machinery.2. Identify trade materials and their uses.3. Inspect tools before use. | |
| B. | <u>Form Building</u> | 4,000-6,000 |
| | <ol style="list-style-type: none">1. Identify, lay out, and build common footing forms and footings.2. Design, lay out, and construct deck forms, such as flat-slab floors, concrete joist systems, concrete-on-metal slabs.3. Construct bulkheads and concrete stops; Cut control joints.4. Construct inverted T-shape, rectangular, and battered foundation walls.5. Build wall forms, using multiple manner of patented panel systems.<ol style="list-style-type: none">a. Install wood bracesb. Install walers.c. Install snap-ties.d. Install and operate turnbuckles.6. Construct column forms using various methods and materials, such as plywood, prefabricated steel-framed plywood, and metal; fasten forms as needed.7. Construct forms for beams and girders, including monolithic formwork.8. Lay out and construct stairways for different uses, i.e., residential commercial, interior, exterior; construct using various methods, including prefabricated/precast and custom stairways. | |

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Apprenticeship Training Office

DEC 12 2016

NYC

9. Construct all manner of piers: circular, square, stepped, battered.
10. Construct pier and pile caps.
11. Construct tilt-up panel forms; connect and set tilt-up walls to slab.
12. Assemble precast structures, including panels, beams, and columns.
13. Construct gang forms; fasten panels together; attach walers, strongbacks, scaffold brackets, etc..
14. Assemble and use flying forms and slipforms.
15. Build Insulating Concrete Forms (ICFs), using block, panel, and plank systems. Lay out and construct door and window bucks. Build ICF floor and roof decks.
16. Work safely around post-tension tendons and lathers installing and stressing tendons.
17. Develop familiarity with patented formwork systems used in various processes named above, such as Doka, PERI, EFCO, and ULMA.
18. Construct falsework when necessary.
19. Strip forms; removal, relocating and repositioning for use.

EFFECTIVE
 APPRENTICE TRAINING
 DEC 02 2016
 CENTRAL OFFICE

C.	<u>Rough Framing</u>		0
D.	<u>Layout</u>		325 – 500
	1. Read and interpret blueprints to lay out required formwork.		
E.	<u>Outside Finishing</u>		0
F.	<u>Inside Finishing</u>	NYS Department of Labor Apprenticeship Training Office	0
G.	<u>Acoustics and Drywall</u>	DEC 12 2016	0
H.	<u>Welding and Cutting</u>	NYC	200 – 500
	1. Weld materials.		
	2. Cut using oxyacetylene.		
I.	<u>Plastics and Resilients</u>		0
J.	<u>Hazardous Materials (optional)*</u>		0
K.	<u>Piledriving/dockbuilding (optional)*</u>		0
L.	<u>Miscellaneous (if in keeping with area practices)</u>		325-500
	1. Rig materials and signal for their transport.		
	2. Erect scaffolding.		
	3. Flag to ensure safety of worksite.		

4. Ensure conformity of design and materials to blueprints, plans and specifications.
5. Operate an aerial lift.
6. Operate a powered industrial lift truck (forklift).

EFFECTIVE
APPRENTICE TRAINING
DEC 02 2016
CENTRAL OFFICE

Total Hours 5,200 – 8,000

***If optional work processes are not selected, the hours should be devoted to further mastery of the other required work processes.**

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>.

NYS Department of Labor
Apprenticeship Training Office

DEC 12 2016

NYC

Safety & Health

Accident Prevention, Fall arrest & Protection, Safety Hazards, State and Federal safety codes and regulations. Safety training as Required by Occupational Safety and Health Administration (OSHA)

OSHA 10-Hour Construction Course – if required for compliance with Article 8, §220-h of New York State Labor Law

Drug and Alcohol Awareness

First Aid – minimum 6.5 hours every 3 years

Confined Space Safety

Asbestos Safety:

If apprentice will do any handling of asbestos:

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

If apprentice will do no handling of asbestos:

Asbestos Awareness – minimum 4 hours (see attachment)

Hazardous Waste Worker (if Work Process “J” is elected)

Math

Review and Application of Basic Mathematics

Estimating for the Trade

Trade Math, Especially Geometry

Measuring Devices and Tools

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DEC 12 2016

Blueprints

Elementary Blueprint Reading

Advanced Blueprint Reading

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Industrial and Labor Relations (20 hours)

History and Background (6 hours, 1st year)

Current Laws and Practices (14 hours, 2nd year)

Sexual Harassment Prevention Training (minimum 3 hours)

Trade Science and Theory

Carpentry and the Other Skilled Construction Trades

Tools and Materials of the Trade

State and Local Building Codes

Foundations

Stair Building and Finishing

Reinforced Concrete Form Construction

Formwork Systems

Introduction to Post-Tensioning
Heavy Timber Construction and Framing
Welding and Cutting
Use of Lasers in Construction (optional)
Solar Collector Systems (optional)
Piledriving Equipment and Materials (if Work Process "K" is elected):
Rigging and Signaling
Excavation and Shoring
Form Building
Welding and Burning
Scaffolding
Aerial Lifts and Powered Industrial Trucks (Forklifts)

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APPRENTICE TRAINING
DEC 02 2016
CENTRAL OFFICE

Additional Courses as Necessary

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

NYS Department of Labor
Apprenticeship Training Office

DEC 12 2016

NYC

ATTACHMENT TO APPENDIX B

EFFECTIVE
APPRENTICE TRAINING

DEC 02 2016

CENTRAL OFFICE

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.

NYS Department of Labor
Apprenticeship Training Office

DEC 12 2016

NYC

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.