



STATE OF NEW YORK
DEPARTMENT OF LABOR

APPENDIX A

CARPENTER (PILE DRIVER/ DOCKBUILDER)

D.O.T. 860.381-581

O*NET 47-2031.02, 47-2072.00

This training outline contains 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 training.

WORK PROCESSES

	<u>Approximate Hours</u>
A. <u>Demonstrating General Knowledge and Skills</u>	325 – 500
1. Care, cleaning, and safe use of tools	
a. hand tools	
b. power tools	
c. engine driven tools	
2. Identifying materials of the trade	
3. Blueprint and plan reading	
4. Layout	
5. Using trade math accurately	
6. Identification and proper use of fasteners	
B. <u>Concrete and Formwork</u>	1,300 – 2,000
1. Building piers, piers and pile caps	
2. Building columns	
3. Building wall forms	
4. Building gang forms	
5. Building slab and deck forms	
6. Working with precast materials	
7. Building footing forms	
8. Form systems	
C. <u>Pile Installation</u>	975 – 1,500
1. Pile preparation	
2. Crane and rig identification	
3. Setup/crane	
4. Safely operating pile driving hammers and accessories	
5. Installing wood piling	
6. Installing concrete piling	

F. Demonstrating Supplemental Skills – continued

- 3. Properly using and caring for layout instruments
- 4. Safe and proper use of powder actuated tools
- 5. Working effectively with concrete, grout, epoxy
- 6. Demonstrating awareness of, and safety in working around, hazardous materials likely to be encountered in the trade
- 7. Hazardous waste remediation (optional)
- 8. Erecting, using, dismantling scaffolding
- 9. Building and structure relocation
- 10. Demolition
- 11. Demonstrating awareness of diver/tender skills
- 12. Building walkways

Total Hours 5,200 – 8,000

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 <http://www.labor.state.ny.us/workerprotection/publicwork/PDFs/Article8FAQS.pdf>

APPENDIX B

CARPENTER (PILE DRIVER/DOCKBUILDER)

RELATED INSTRUCTION

Safety

General safety (including identification of safety hazards, state and federal safety codes and regulations, accident prevention)
Safety training as required by the Occupational Safety and Health Administration
Drug and alcohol awareness
Ergonomics
Fall arrest and protection
OSHA 10-Hour Construction Course – if required for Public Work
Awareness of hazardous materials likely to be encountered in the trade
Lead Safety
Confined space safety
MSDS
Scaffolding qualification
Diver/tender skills awareness
Hazardous waste worker – 40-hour course (if Work Process “F7” on Appendix A is selected)
First aid/CPR – minimum 6.5 hours every 3 years

Math

Review and application of basic mathematics
Estimating for the trade

Blueprints

Elementary blueprint reading
Advanced blueprint reading
Freehand sketching and layouts

Trade Theory and Science

Piledrivers
Floating of water drivers
Construction
Rigging – anchors, lines, buoys, hammer line, pile line, jet rigging, lead rigging, deck winches, rigger leads
Hammers and leads (drop, steam, pneumatic, diesel)
Hammer rigging
Lead construction (stationary, swinging, pendulum, false, pile

Carpenter (Piledriver/Dock Builder) Related Instruction – continued

extractors)

Trade Theory and Science – continued

Tools – drilling and setting with long augers
Piling materials – wood, treated wood, steels, tube and sheet, concrete, cutoffs
Driving of material – driving to bearing, jetting
Rigging – building sections, stressed beams, knots, hitches and splices (manilla and wire), stiff legs, gin pole, shear legs, mobile cranes, righting capsized drivers
Excavations and shoring excavations
Form building
Construction of cofferdams – steel, sheet piling, wood construction; sealing of cofferdams, removal
Construction of wood trestles – truss type, heavy framing
Construction of bridges – overpasses, abutments, sills, column, vertical curves and supers, beams (cast-in-place, precast, prestressed and poststressed)
Dockbuilding – wood and concrete
Float and pontoon
Welding and burning
Construction of engines, jets and jet pumps

Interpersonal Workplace Skills

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
Foreperson training (optional)
Superintendent training (optional)

Other Related Courses as Necessary

A Minimum of 144 Hours of Related Instruction is Required for Each Apprentice for Each Year.