



## APPENDIX A

### SKILLED CONSTRUCTION CRAFT LABORER (Time-Based)

D.O.T. Code 869.463-580  
O\*NET Code 47-2061.00

A Skilled Construction Craft Laborer (SCCL) uses many different pieces of equipment and tools on a wide variety of jobs in the construction industry. SCCLs work in virtually all sectors of the industry: Building Construction, Heavy/Highway and Utility Construction, Mason and Plaster Tending, Demolition and Deconstruction, Pipeline, Tunneling, Environmental Remediation, and Landscaping.

Often, SCCLs find themselves working on numerous jobsites in different industry sectors throughout their apprenticeship and in their careers as journeymen. An apprentice may spend three months on a concrete crew working on a new high-rise office building; then go to work on a multi-lane highway project assisting in raking, placing and compacting asphalt; then spend a few months on an asbestos abatement project.

Some SCCLs, on the other hand, especially in larger metropolitan areas, spend their entire careers in one industry "concentration." Many SCCLs obtain career-long employment building scaffolding, mixing mortar, and tending masons for masonry contractors.

Nothing in this outline shall be construed as authorization or intent to produce a skilled worker for any trade other than the Skilled Construction Craft Laborer.

This training outline is the current standard for Work Processes and Related Instruction. Changes in technology, regulations, and safety/health issues may result in the need for additional on-the-job or classroom-type learning.

## WORK PROCESSES

*All apprentices must complete the following Core Work Skills Processes:*

### Core Work Skills 2,000 Hours

	<u>Approximate Hours</u>
A. Site preparation, cleanup and security	400
B. Use and understand basic blueprint symbols and views	25
C. Recognize, secure and maintain job site safety	500
D. Identify and work safely around potential or identified environmental hazards	25
E. Erect, dismantle, maintain and work from scaffolds or lifts	100
F. Operate and maintain trade-related equipment, hand and power tools	425
G. Identify, estimate, move, supply, stock, and store materials	500
H. Use appropriate hand signals	25

### Concentrations

*Each apprentice must complete anywhere from 1 – 8 of the following concentrations. Selection of which concentration(s) will be completed is at the sponsor's option depending upon their particular needs.*

<u>Number of Concentration(s) Selected</u>	<u>Hours per Concentration</u>
1	2,000
2	1,000
3	667
4	500
5	400
6	334
7	286
8	250

*(Please note: Any apprentice choosing more than six Concentrations will need to use either a Blue Book which provides space for On-the-Job Training (OJT) in every Concentration chosen, or an Apprenticeship Training Central Office Approved Alternate Method of Recordkeeping. Your ATR can assist you in obtaining either of these documents.)*

## **I. Building Construction**

*The following list of tasks is performed in connection with new building construction or maintenance of existing buildings. It includes many typical Laborer job duties, but is not meant to be all-inclusive. The specific tasks that will be completed are at the option of the sponsor.*

1. Mixing, placement and vibration of concrete. Removing and cleaning forms. Curing of concrete.
2. Pipelaying for any utility piping.
3. Hoisting trade-related materials and tools, using such equipment as slings, well wheel-pulleys, chain falls. Rigging of cranes from the "hook down".
4. Cutting and burning (where appropriate).
5. Traffic control/flagging. (*not to exceed 200 hours*)
6. Trenching and excavating (excluding operation of heavy equipment).
7. Assisting with grade setting/checking.
8. Clearing, bucking and falling.
9. Site preparation/cleanup and security (excluding operation of heavy equipment).
10. Assisting with laying out and staking.
11. Erecting, dismantling and maintaining scaffold.
12. Identifying, inspecting, using and maintaining all tools specific to this concentration.
13. Installing erosion control systems (excluding operation of heavy equipment).
14. Loading materials for transport; transporting and stocking materials.
15. Operating aerial lift.

## **J. Heavy/Highway and Utility Construction**

*The following tasks are performed in association with the construction of infrastructure such as roads, railroads, bridges, docks, locks, dams and utility installation. It includes many typical Laborer job duties, but is not meant to be all-inclusive. The specific tasks that will be completed are at the option of the sponsor.*

1. Mixing, placing, vibrating concrete. Removing and cleaning forms. Curing concrete.
2. Cutting and coring concrete (where appropriate).
3. Pipelaying for any utility piping.

4. Hoisting trade-related materials and tools using such equipment as slings, well wheel pulleys, chain falls. Rigging of cranes from the “hook down”.
5. Traffic control/flagging (*not to exceed 200 hours*).
6. Trenching and excavating (excluding operation of heavy equipment).
7. Assisting with grade setting/checking.
8. Assisting with laying out and staking.
9. Site preparation/cleanup and security (excluding operation of heavy equipment).
10. Drilling, using air-track drill or jackhammer.
11. Preparing base, raking, placing, and compacting asphalt using appropriate tools and equipment (excluding operation of heavy equipment).
12. Building railroad beds and all related bridges and tunnels; installing tracks (excluding operation of heavy equipment).
13. Erecting, dismantling and maintaining scaffold.
14. Identifying, inspecting, using and maintaining all tools specific to this concentration.
15. Installing erosion control systems (excluding operation of heavy equipment).
16. Loading materials for transport; transporting and stocking materials.
17. Operating aerial lift.
18. Site/roadside remediation (excluding operation of heavy equipment).

**K. Masonry Tending**

*The following tasks are performed to assist masons with such work as new construction, renovation and refractory. It includes many typical Laborer job duties, but it is not meant to be all-inclusive. The specific tasks that will be completed are at the option of the sponsor.*

1. Erecting/dismantling and maintaining scaffold.
2. Estimating, stocking and maintaining supply areas.
3. Identifying, inspecting, using and maintaining tools specific to this concentration.
4. Loading materials for transport; transporting and stocking materials.
5. Operating aerial lift.
6. Mason tending/ Plasterer tending:
  - a. Bracing walls.
  - b. Mixing mortar or plaster, including colored versions.
  - c. Estimating and stocking masonry units.

- d. Cutting masonry units.
  - e. Supplying, stocking and dispensing mortar, plaster, block/brick, reinforcing materials, other trade-related materials.
  - f. Operating and maintaining plaster or grout pump.
  - g. Layout and cleaning of plaster or grout pump.
  - h. Fireproofing Operations (if in keeping with area practice).
  - i. Tending application of exterior insulation finish systems, such as Dryvit system.
  - j. Tending interior plaster restoration operations.
7. Cleaning masonry walls, using scaffold/personnel lift, bucket, hose (if in keeping with area practice). Removing algae stains and efflorescence from masonry walls.

## **L. Demolition and Deconstruction**

*The following list of tasks are performed in connection with the demolition or deconstruction of buildings and other structures. It includes many typical Laborer job duties, but is not meant to be all-inclusive. The specific tasks that will be completed are at the option of the sponsor.*

- 1. Identifying and working safely around potential environmental hazards.
- 2. Erecting/dismantling and maintaining scaffold.
- 3. Cutting and burning (where appropriate).
- 4. Hoisting trade-related materials and tools using such equipment as slings, well wheel pulleys, chain falls. Rigging of cranes from the "hook down".
- 5. Trenching and excavating (excluding operation of heavy equipment).
- 6. Operating aerial lift.
- 7. Site preparation/cleanup and security (excluding operation of heavy equipment).
- 8. Identifying, inspecting, using and maintaining all tools specific to this concentration.
- 9. Conducting fire watch (excluding mechanical heaters).
- 10. Cutting concrete using such equipment as saws, high-pressure water jet, or burning wand, where appropriate.
- 11. Handling and managing demolition debris (recycling, reuse, disposal). Palletizing and tagging for reuse.

## **M. Pipeline**

*The following list of tasks are performed in connection with the construction and maintenance of pipelines for the transmission and distribution of gas,*

*oil, and other materials. It includes many typical Laborer job duties, but is not meant to be all-inclusive. The specific tasks that will be completed are at the option of the sponsor.*

1. Hoisting trade-related materials and tools using such equipment as slings, well wheel pulleys, chain falls. Rigging of cranes from the “hook down.”
2. Trenching and excavating (excluding operation of heavy equipment).
3. Site preparation/cleanup and security (excluding operation of heavy equipment).
4. Identifying, inspecting, using and maintaining all tools specific to this concentration.
5. Assisting with grade setting/checking.
6. Assisting with laying out and staking.
7. Clearing and maintaining right-of-way (excluding operation of heavy equipment).
8. Locating underground utilities by reading plans and specifications, using metal scope, potholing (daylighting).
9. Laying out/erecting/maintaining/dismantling temporary protective fencing.
10. Loading and unloading pipe.
11. Filling and placing sandbags manually.
12. Loading, unloading and placing skids (wooden beams on which piping will sit).
13. Installing erosion control systems (excluding operation of heavy equipment).
14. Preparing pipe surface by cleaning with rag, wire brush, wire wheel, or sandblasting using regular compressor.
15. Applying pipe coating using appropriate methods.
16. Inspecting pipe visually and using a “holiday” detector.
17. Patching pipe.
18. Installing pipe coating protection, using appropriate methods
19. Preventing pipe corrosion by attaching cathodic protection.
20. Assisting operators or techs with “pigging” pipe.
21. Remediating right-of-way (excluding operation of heavy equipment).

## **N. Tunneling**

*The following list of tasks may be performed in connection with all work underground or in compression chambers, including tending of the outer air lock. It includes many typical Laborer job duties, but is not meant to be all-inclusive. The specific tasks that will be completed are at the option of the sponsor.*

1. Drilling using air tracks, jack legs, jack hammers.  
Assisting with operation of tunnel boring machines.
2. Identifying, inspecting, using and maintaining all tools specific to the concentration.
3. Hoisting trade-related materials and tools using such equipment as slings, well wheel pulleys, chain falls. Rigging of cranes from the "hook down".
4. Operating and maintaining concrete pump.
5. Installing services such as: track laying, conveyors, vents, water, compressed air pipes, etc..
6. Installing tunnel supports (steel ribs, mesh, rock bolts) manually, including drilling and tying mesh.
7. Grouting shaft and tunnel, using grout pumps, where appropriate.
8. Applying shotcrete/gunite (if in keeping with area practice).
9. Cutting and burning (where appropriate).

**O. Environmental Remediation**

*The following list of tasks is performed in connection with the remediation of areas, buildings and materials contaminated with chemical, biological and physical hazards. It includes many typical Laborer job duties, but is not meant to be all-inclusive. The specific tasks that will be completed are at the option of the sponsor.*

1. Abating asbestos.
2. Remediating hazardous waste.
3. Abating lead.
4. Remediating microbial contamination including: mold, fungi, bacteria.
5. Performing radiation protection and handling radioactive materials; including screening off appropriate areas, decontaminating, abating, and moving of materials.
6. Assisting in restoration of water/fire-damaged structures.  
*(Asbestos, lead, and hazardous waste awareness should be prerequisites).*
7. Erecting/dismantling and maintaining scaffold.
8. Identifying, inspecting, using and maintaining all tools specific to this concentration.
9. Operating aerial lift.

**P. Landscaping**

*The following list of tasks is performed in connection with landscape work in commercial applications. It includes many typical Laborer duties, but is not meant to be all-inclusive. The specific tasks that will be completed are at the option of the sponsor.*

1. Trimming and pruning hedges, trees and shrubs.
2. Seeding and sodding lawns.
3. Installing irrigation systems.
4. Installing or working with other trades to install retaining walls (excluding wooden forms).
5. Applying fertilizers and pesticides, both those used traditionally and newer alternative “green” products.
6. Planting and maintaining flowers and ground covers.
7. Installing, or working with other trades to install all kinds of fences. Installing and maintaining planters. Constructing, maintaining, and installing playgrounds, and fountains. Assisting in the installation of gazebos.
8. Maintaining and repairing small gas engines.
9. Identifying, inspecting, using and maintaining all tools specific to this concentration.
10. Controlling traffic/flagging (*not to exceed 200 hours*).
11. Operating landscape equipment related to the occupation, such as: power buggies, seed spreaders, hydroseeders (excluding driving). (Excluding operation of heavy equipment).

**TOTAL HOURS                      4,000**

(Core Skills: 2,000 hours + Concentration(s): 2,000 hours = minimum of 4,000 hours)

*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

SKILLED CONSTRUCTION CRAFT LABORER

RELATED INSTRUCTION

CORE SKILLS

*Each apprentice must complete all 175 hours of the Core Skill Related Instruction*

OSHA 10-hour Construction Safety and Health  
Hazard Communication/Right-to-Know  
Fall Protection  
Scaffold User  
Confined Space Awareness  
First Aid/CPR – minimum 6.5 hours every 3 years  
Craft Orientation  
    Introduction to the General Construction Industry (if available)  
    Building a Career as a Laborer (if available)  
    Good Work Habits  
    Productivity  
    Growth Areas in Construction Employment (if available)  
General Laborer Skills:  
    Work and Role of a Laborer (if available)  
    Jobsite Safety  
    Measurement  
    Basic Construction Math  
    Safe Hand and Power Tool Operation  
    Identification and Handling of Materials  
Blueprint Reading  
    Basics of Reading and Interpreting  
    Symbols  
    Line Conventions  
    Views  
Signaling methods: hand, traffic, flagging  
Sexual Harassment Prevention Training – minimum 3 hours

**Minimum Total Hours**     175

## **CONCENTRATIONS**

*Each apprentice must complete a total of 125 hours of Related Instruction for all of his/her concentrations combined.*

### **Building Construction Concentration**

*Sponsor may choose from the topics below. Choices should match the work the apprentice is doing on the job as much as possible.*

- Scaffold Builder
- Aerial Lift
- Hoisting and Rigging
- Fire Watch
- Cutting and Burning
- Concrete
- Pipe Laying
- Line and Grade

### **Heavy/Highway and Utility Construction Concentration**

*Sponsor may choose from the topics below. Choices should match the work the apprentice is doing on the job as much as possible.*

- Aerial Lift
- Hoisting and Rigging
- Concrete
- Pipe Laying
- Line and Grade
- Asphalt
- Traffic Control
- Drilling
- Scaffold Builder

### **Masonry Tending Concentration**

*Sponsor may choose from the topics below. Choices should match the work the apprentice is doing on the job as much as possible.*

- Scaffold Builder
- Aerial Lift
- Mason/Bricklayer/Plasterer Tending

### **Demolition and Deconstruction Concentration**

*Sponsor may choose from the topics below. Choices should match the work the apprentice is doing on the job as much as possible.*

Scaffold Builder  
Aerial Lift  
Hoisting and Rigging  
Demolition/Deconstruction  
Fire Watch  
Cutting and Burning

### **Pipeline Concentration**

*Sponsor may choose from the topics below. Choices should match the work the apprentice is doing on the job as much as possible.*

Hoisting and Rigging  
Line and Grade  
Pipeline

### **Tunneling Concentration**

*Sponsor may choose from the topics below. Choices should match the work the apprentice is doing on the job as much as possible.*

Hoisting and Rigging  
Fire Watch  
Cutting and Burning  
Shotcrete  
Tunnel Worker  
Drilling

### **Environmental Remediation Concentration**

*Sponsor may choose from the topics below. Choices should match the work the apprentice is doing on the job as much as possible.*

Aerial Lift  
Asbestos Worker – successful completion of a course approved by the New York State Department of Health for “Asbestos Handler (Worker)” and obtaining, and keeping current, an “Asbestos Handler (Worker)” Certificate from the New York State Department of Labor  
HAZWOPER – 40-hour Certification and successful completion of annual refresher course  
Microbial Remediation  
Lead Abatement Worker – 16 hours – approved by the United States Environmental Protection Agency (EPA)

**Landscaping Concentration**

*Sponsor may choose from the topics below. Choices should match the work the apprentice is doing on the job as much as possible.*

Landscaping

Landscape Equipment Operation

Brick Paver Installation (if in keeping with area practice)

Retaining Wall Installation

Irrigation Installation