



# **Appendix A**

## **WORK PROCESS SCHEDULE AND RELATED INSTRUCTION OUTLINE**



## Appendix A

### WORK PROCESS SCHEDULE

**OCCUPATION TITLE: Construction Craft Laborer**

**O\*NET-SOC CODE: 47-2061.00**

**RAPIDS CODE: 0661HY**

This schedule is attached to and a part of these Standards for the above-identified occupation.

#### **1. TYPE OF OCCUPATION**

Time-based                       Competency-based                       Hybrid

#### **2. TERM OF APPRENTICESHIP**

The term of the occupation is two (2) years with an OJL attainment of 4100 - 5000 hours, supplemented by the minimum required 260 hours of related instruction with a probationary period of 6 months or 1000 OJL hours, whichever is shorter.

#### **3. RATIO OF APPRENTICES TO JOURNEYWORKERS**

The apprentice to journeyworker ratio is One Apprentice to One Journeyworker per job site.

#### **4. APPRENTICE WAGE SCHEDULE**

Apprentices shall be paid a progressively increasing schedule of wages based on either a percentage or a dollar amount of the current hourly journeyworker wage rate, which is: \$13.55 per hour.

##### **PERIODS:**

1 <sup>st</sup> 6 months (1000 hours) = \$11.60	2 <sup>nd</sup> 6 months (1000 hours) = \$12.25
3 <sup>rd</sup> 6 months (1000 hours) = \$12.90	4 <sup>th</sup> 6 months (1000 hours) = \$13.55

#### **5. WORK PROCESS SCHEDULE (See attached Work Process Schedule)**

The sponsor may modify the work processes to meet local needs prior to submitting these Standards to the appropriate Registration Agency for approval.

**RELATED INSTRUCTION OUTLINE (See attached Related Instruction Outline)**



## Appendix A

### WORK PROCESS SCHEDULE

OCCUPATION TITLE: **Construction Craft Laborer**

O\*NET-SOC CODE: 47-2061.00

RAPIDS CODE: 0661HY

<u>Work Processes</u>	<u>Approximate Hours</u>
-----------------------	--------------------------

<b>1. Safety</b>	<b>100</b>
------------------	------------

(Identifies safe work site procedures, selection of PPE, fall protection, confined spaces, and working around heavy equipment)

- a. Identifies PPE for head, feet, ears and eyes.
- b. Determines PPE requirement for the task at hand.
- c. Ensures that all workers wear appropriate PPE in all work areas.
- d. Explain and apply OSHA regulations as they relate to job site.
- e. Demonstrates safety precautions during all tasks and tool operations.
- f. Is aware of others in area when using tools or moving materials. Maintains awareness of all equipment being operated on job site.
- g. Ensures good housekeeping practices are followed; areas are cleaned, and tools are kept in good operating condition.
- h. Identifies fall protection, scaffolding, safety nets, fall restraints, etc.
- i. Defines confined work areas but does not work in confined spaces.
- j. Takes corrective action when faced with a safety hazard.

<b>2. Hazardous Materials</b>	<b>100</b>
-------------------------------	------------

(Handles, stores, and disposes of hazardous materials according to OSHA and MSDS standards)

- a. Explains the importance of Hazardous Communication and material data safety sheets (MSDSs).
- b. Uses, stores, and disposes of hazardous materials as prescribed on the product label.
- c. Uses Hazardous materials only in designated work areas and only as directed.
- d. Knows how to read and understand MSDS sheets.
- e. Ensures that job site is clear of Hazardous materials at the end of the day



- f. Disposes of Hazardous material per local regulations.
- g. OSHA 10 course 1<sup>st</sup> Year
- h. OSHA 30 course 2<sup>nd</sup> Year

### 3. Tools

110

(Employs the safe and proper use of hand and power tools, the apprentice will also learn to properly store and maintain tools.)

- a. Identifies and selects a correct tool for the task.
- b. Handles tools in a safe manner.
- c. Wears PPE during tool operation
- d. Identifies and selects correct power tool for the task.
- e. Safely handles tool h, checking guards and safety cords.
- f. Passes safety test for portable and stationary power tools if applicable.
- g. Changes blades, bits, belts, etc., as necessary.
- h. Maintains and stores tools.
- i. Cleans tools as directed

### 4. Measurement

25

(Apprentice will learn to correctly measure distances using standard tape measure to the nearest 1/16")

- a. Understands basic ruler/tape marking principle
- b. Accurately measures material and objects.
- c. Accurately marks materials to meet material requirements.

### 5. Trade Math

50

(Apprentice shall be able to calculate square footage, linear and cubic measurements, and shall be able to solve construction problems using whole numbers, decimals, and fractions).

- a. Knows basic principles of calculation area.
- b. Calculates linear measurements to determine materials requirements.
- c. Knows basic principles of fractions.
- d. Adds and subtracts fractions.
- e. Knows basic principles of decimal forms.
- f. Converts common fractions to decimal fractions, and vice versa.
- g. Uses basic math principles to determine material requirements.
- h. Uses whole numbers and fractions to determine material dimensions needed for difficult or unusual shaped areas.



## 6. Blueprint ID-

80

(Apprentice will be able to identify, describe, and locate major elements of building floor plans and elevations).

- a. Identifies the scale used in the blueprints.
- b. Identify types of reference lines used in the prints.
- c. Identify dimensions.
- d. Identify plot plans and site features.

## 7. Platforms-

85

(Identifies scaffolds and components)

- a. States uses and types of scaffolding
- b. Describes the methods to safely erect and dismantle scaffolds and platforms.
- c. Describes the assembly of scaffold components.
- d. Explains how to install the boards, mid rails, and handrails from 2 x 4s.
- e. Describes the safe and accurate use of fall protection devices.
- f. Identify safety harness requirements.
- g. Identify types and components of harnesses and their uses.
- h. Visually inspects safety harnesses for defects.
- i. Identifies ladder types and their uses.
- j. Uses the ladder to perform the task.
- k. Selects erects and removes the ladder, maintaining safe work area.

## 8. Carpentry Basics

250

(Apprentice will become familiar with materials, components, and procedures used on jobsites- basic framing, layout, etc.).

- a. Identifies types of lumber-grades and sizes of lumber and their uses.
- b. Identifies engineered products, panels, and sheet goods characteristics and uses.
- c. Identifies wall components.
- d. Identifies door components.
- e. Identifies roofing materials and procedures- underlayment, sizes and weights of asphalt felts, identifies flashing, shingle types and uses.
- f. Identifies flooring materials and procedures- types of underlayment and substrates used for assigned tasks. Identifies compound used to level floors and different types of floor coverings.

## 9. Highway Construction:

850

- a. Site/Project Preparation and Maintenance Clearing.
- b. Grade Checking, Stake Hopping.
- c. Culvert Installation.



- d. Equipment Signaling, Traffic Control.
- e. Rigging.
- f. Clean-up
- g. Security.

<b>9. Utility Construction:</b>	<b>850</b>
a. Excavation, shoring.	
b. Pipelaying, manhole placement, and construction.	
c. Backfill, compaction.	
d. Transferring of grades, grade checking.	
<b>10. Building Construction and Housing:</b>	<b>800 - 1300</b>
a. Excavation of building.	
b. Preparation of footings and foundation.	
c. Carpenter tending	
d. Compaction of soil around the structure.	
e. Concrete placement, setting forms, pouring concrete.	
f. Use of power/hand tools during the concrete pour.	
g. Clean up of concrete equipment.	
<b>11. Specialty Construction:</b>	<b>800 - 1300</b>
a. Mason tending.	
b. Asphalt, Tip-Up, Epoxy Application.	
c. Drilling, Concrete Sawing, Concrete Coring.	
d. Asbestos Abatement and Hazardous Material Handling.	
<b>Total Hours</b>	<b>4100 - 5000</b>



## RELATED INSTRUCTION OUTLINE

### OCCUPATION TITLE: Construction Craft Laborer

**O\*NET-SOC CODE: 47-2061.00**

**RAPIDS CODE: 0661HY**

Related instruction - The following training curriculum will be provided by the program sponsor and their certified and designated program instructor(s).

<b><u>Core Curriculum:</u></b>	<b><u>Approximate Hours</u></b>
SA-HT Safety and Health	<b>25</b>
IR-PP Industrial Rigging Principle/Practices	<b>30</b>
MA-TH Practical Math	<b>50</b>
CA-CF Concrete Formwork	<b>100</b>
MS-BA Basic Blue Print Reading	<b>80</b>
<u>CPR/First Aid Check with Local Red Cross or Hospital</u>	<b><u>32</u></b>
<b>TOTAL</b>	<b>Total HOURS 288</b>