Appendix A

WORK PROCESS SCHEDULES

AND

RELATED INSTRUCTION OUTLINE

Northern Nevada Operating Engineers Local #3 JAC

Truck Crane Operator

O*NET-SOC CODE: 53-7021.00 RAPIDS CODE: 0014

APPROVED BY
THE NEVADA LABOR COMMISSIONER AND THE NEVADA STATE APPRENTICESHIP COUNCIL

_____
Richard J. Williams, Nevada State Apprenticeship Director

REGISTRATION DATE: _____

RAPIDS PROGRAM ID NUMBER: NV00267002

DEVELOPED IN COOPERATION WITH THE
THE NEVADA LABOR COMMISSIONER, THE NEVADA STATE APPRENTICESHIP COUNCIL, AND
THE U.S. DEPARTMENT OF LABOR

Appendix A

WORK PROCESS SCHEDULE

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 shall be defined by the attainment of all competencies of the position. 1) If the program uses a time-based approach, requires the completion of not less than 2,000 hours of [work experience,] on-the-job learning, consistent with training requirements as established by practice in the trade; (2) If the program uses a competency-based approach, specifies the skills that must be demonstrated by an apprentice and addresses how on-the-job learning will be integrated into the program; or (3) If the program uses a hybrid approach, specifies the skills that must be acquired and the minimum number of hours of on-the-job learning that must be completed by an apprentice.

This would be expected to occur within approximately 6000 hours (must be at least 2,000 hours) of OJL, supplemented by the minimum of 144 hours of related instruction per year of the apprenticeship.

3. RATIO OF APPRENTICES TO JOURNEYWORKERS

The apprentice to journey worker/fully trained worker ratio is: 1 apprentice(s) to 5 journey worker/fully trained worker(s).

4. APPRENTICE WAGE SCHEDULE

An apprentice minimum starting wage will be at least $ 25.36 per hour. Apprentices shall be paid a progressively increasing schedule of wages based on either a percentage or a dollar amount of the current hourly journey worker/fully trained worker wage. A journey worker/fully trained worker minimum wage will be at least $ 42.31.

1-Year Term Example:

1st 65 = % 2nd = 70%

Periodic review and evaluation of the apprentice's on-the-job learning and related technical instruction will be conducted in alignment with the wage schedule established.

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.

6. RELATED INSTRUCTION OUTLINE (See attached Related Instruction Outline)

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

Appendix A

WORK PROCESS SCHEDULE

The term of the occupation shall be defined by the attainment of all competencies, both technical and behavioral, of the position, which would be expected and approximated to occur within 6000 hours of OJL, supplemented by a minimum of 144 hours of related instruction per year of apprenticeship.

Apprenticeship Competencies – Technical

Item	Work Processes	Approx. Hours
A	Learn care, preventative maintenance, proper oils, greases, Cables and minor adjustments	600
B	Learn to adjust frictions, brakes, and clutches	500
C	Learn the controls, their importance in the proper operation and movement of the machine for the safety of other employees and equipment working near the machines	600
D	Learn to read instructions	300
E	Learn to make major overhauls working with the Operator, Heavy Duty Repair Mechanic and /or Welder	900
F	Learn the proper loads the machine and cables will safely handle	600
G	Learn the operation difference between a live boom and regular operation	500
H	Learn to give and receive proper signals for hoisting, swinging, and lowering materials and equipment	500
I	Learn to use out-riggers on wheel-type machines for protection of the machine and materials being handled	500
J	Learn to understand proper horn and hand signals when assigned to mobile cranes	500
K	Learn proper assembly and dismantling of lattice boom cranes	400
L	Dragline, clamshells, and demolition ball. (a) Learn names and uses of various types of draglines, buckets, and attachments. (b) Learn care, preventative maintenance, proper oil and greases, cable, and minor adjustments. (c) Learn to change teeth, cables, adjust frictions, brakes and clutches. Learn the controls, their importance in proper operation and movement of machine for safety of other employees and equipment working near machines.	100
M		
N		
O		
P		
Q		
	Total hours (approximate)	**6000**

The above on-the-job-learning (OJL) work process competencies are intended as a guide. It need not be followed in any sequence, and it is understood that some adjustments may be necessary in the hours allotted for different work experience. In all cases, the apprentice is to receive sufficient experience to make them fully competent and use good workmanship in all work processes, which are a part of the industry. In addition, the apprentice shall be fully instructed in safety and OSHA requirements.

Apprenticeship Competencies – Behavioral

In addition to mastering all the essential technical competencies, an apprentice must consistently demonstrate at an acceptable level the following behavioral competencies, to complete the apprenticeship.

Item #	Behavioral Competencies
1.	Participation in team discussions/meetings
2.	Focus in team discussions/meetings
3.	Focus during independent work
4.	Openness to new ideas and change
5.	Ability to deal with ambiguity by exploring, asking questions, etc.
6.	Knows when to ask for help
7.	Able to demonstrate effective group presentation skills
8.	Able to demonstrate effective one-on-one communication skills
9.	Maintains an acceptable attendance record
10.	Reports to work on time
11.	Completes assigned tasks on time
12.	Uses appropriate language
13.	Demonstrates respect for patients, co-workers, and supervisors
14.	Demonstrates trust, honesty, and integrity
15.	Requests and performs work assignments without prompting
16.	Appropriately cares for personal dress, grooming and hygiene
17.	Maintains a positive attitude
18.	Cooperates with and assists co-workers
19.	Follows instructions/directions
20.	Able to work under supervision
21.	Able to accept constructive feedback and criticism
22.	Able to follow safety rules
23.	Able to take care of equipment and workplace
24.	Able to keep work area neat and clean
25.	Able to meet supervisor's work standards
26.	Able to not let personal life interfere with work
27.	Adheres to work policies/rules/regulations

RELATED INSTRUCTION OUTLINE

The related instruction has been developed in cooperation with employer-partners as part of the apprenticeship. The following is a set of courses to be delivered by subject matter experts.

Related Technical Instruction (RTI) - This instruction shall include, but not be limited to, at least 144 hours per year for each year of the apprenticeship. The related theoretical education listed below is tightly integrated with real work product. The curriculum is defined as a variety of classes, around which the exams and projects are based. By defining the RTI this way, all competencies required of the students are met, through project work.

COURSE TOPICS	HOURS
A. Orientation	100
B. Cranes	126
C. Cranes	350

COURSE TOPIC DESCRIPTIONS

A. Orientation, Safety, Traffic Control, Forklift safety and certification, Commercial Drivers' License

B. Rigging, OSHA- 10, Load Charts, Crane Operations- Hydraulic, Conventional, Tower. Cleaning and lubrication, Boom Sections- Assembly and disassembly

C. Advanced load charts, ASME/OSHA regulations, power line regulations, Advanced rigging, Two Crane lift introduction, National crane certification practical exams, Assembly/Disassembly of cranes, Clamshell/Dragline introduction, Advanced crane operations- Hydraulic, Conventional, and Tower

SECTION 27 - OFFICIAL ADOPTION OF APPRENTICESHIP STANDARDS

Program Sponsor Name hereby adopts these standards of apprenticeship.

Sponsor(s) designate the appropriate person(s) to sign the standards on their behalf.



Signature of Sponsor *(designee)* **Date:** 9/30/2022

Brian Prather
Type Name & Title