



NEVADA LABOR COMMISSIONER
NEVADA STATE APPRENTICESHIP COUNCIL
2023 Non-Joint Standards of Apprenticeship

Appendix A

WORK PROCESS SCHEDULES AND RELATED INSTRUCTION OUTLINE

Summit Fire & Security

Pipe Fitter-Sprinkler Fitter

O*NET-SOC CODE: 47-2152.00 RAPIDS CODE: 0414TB

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

Toni Giddens, Nevada State Apprenticeship Director

REGISTRATION DATE: _____

RAPIDS PROGRAM ID NUMBER: _____

**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, specify the skills that must be demonstrated by an apprentice and address how on-the-job learning will be integrated into the program; or (3) If the program uses a hybrid approach, specify 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 **8000** 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 2 journey worker/fully trained worker(s).

4. APPRENTICE WAGE SCHEDULE

An apprentice minimum starting wage will be at least \$**20.00** 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 \$**40.00**.

Period	%	Wage (Hourly)
1st	50	\$20.00
2nd	55	\$22.00
3rd	60	\$24.00
4th	65	\$26.00
5th	70	\$28.00
6th	75	\$30.00
7th	80	\$32.00
8th	85	\$34.00
End Wage	100.00 % at completion	\$40.00 wage at completion

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 8 0 0 0 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	Workplace Safety	375
B	Sprinkler Fitting Math Skills	225
C	Plan Reading and NFPA Code Knowledge	525
D	Tools	525
E	Job Site Organization and Material Handling	525
F	Pipe and Fittings	875
G	Hangers and Sprinklers	500
H	General Purpose Valves	425
I	Wet Pipe Fire Sprinkler Systems	1200
J	Dry Pipe Fire Sprinkler Systems	500
K	Deluge and Preaction Systems	500
L	Standpipes	550
M	Water Supplies	375
N	Fire Pumps	375
O	Inspection, Testing, Maintenance and Repairs	475
P		
Q		
	Total hours (approximate)	8000

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. Year 1	# 165 hours
B. Year 2	# 152.5 hours
C. Year 3	# 150 hours
D. Year 4	# 145 hours

COURSE TOPIC DESCRIPTIONS

A. Year 1

Module 00100 Build Your Future in Construction	2.5
Module 00101 Basic Safety	12.5
OSHA-10 hour Certification	10
Module 00102 Introduction to Construction Math	10
Module 00103 Introduction to Hand Tools	12.5
Module 00104 Introduction to Power Tools	10
Module 00105 Introduction to Construction Drawings	10
Module 00106 Introduction to Basic Rigging	7.5
Module 00107 Basic Communication Skills	7.5
Module 00108 Basic Employability Skills	7.5
Module 00109 Introduction to Material Handling	5
Module 18101 Occupational Overview: The Sprinkler Industry	5

Module 18102 Introduction to Components and Systems	10	2023 Non-Joint Standards of Apprenticeship
Module 18103 Steel Pipe and Fittings	20	
Module 18104 CPVC Pipe and Fittings	12.5	
Module 18105 Copper Tubing and Fittings	10	
Module 18106 Underground Pipe	12.5	

B. Year 2

Module 18201 Hangers, Supports, and Restraints	17.5
Module 18202 General Purpose Valves	15
Module 18203 Math for Sprinkler Fitters	20
Module 18204 Shop Drawings	30
Module 18205 Standard Spray Sprinklers	20
Module 18206 Wet Pipe Sprinkler Systems	25
Module 18207 Dry Pipe Sprinkler Systems	25

C. Year 3

Module 18301 Deluge and Preaction Sprinkler Systems	35
Module 18302 Standpipes	25
Module 18303 Water Supplies	15
Module 18304 Fire Pump Systems	35
Module 18305 Application Specific and Special Sprinklers	40

D. Year 4

Module 18401 System Layout	27.5
Module 18402 Inspection, Testing, and Maintenance	37.5
Module 18403 Special Extinguishing Systems	27.5
Module 18404-Module 46101 Fundamentals of Crew Leadership	22.5
Module 18405 Proper Procedures and Documentation	30

GRAND TOTAL

612.5

SECTION 27 - OFFICIAL ADOPTION OF APPRENTICESHIP STANDARDS

Summit Fire & Security 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: _____

Type Name & Title