

Department of Labor and Industries Apprenticeship Section PO Box 44530 Olympia WA 98504-4530



# Request for Revision of Standards

TO: Washington State Apprenticeship & Training Council

### FROM: SPOKANE HEAT AND FROST INSULATORS AND ALLIED WORKERS APPRENTICESHIP COMMITTEE #272

Please update our Standards of Apprenticeship to reflect the following changes:

- Additions shall be underlined (<u>underlined</u>).
- Deletions shall be struck through (struck through).
- See attached.

## Form must be signed by Committee Chair and Secretary or Program's Authorized Signer

🗌 Chair	Date	Secretary	Date
Authorized Signer	11/18/2024		
Print Name:		Print Name:	
Andrew Richman			
Signature:		Signature:	
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Attach additional sheets if necessary

Cover

Occupational Objective(s):	SOC#	Term [WAC 296-05-015]
ASBESTOS WORKER	47-2132.00	6000 HOURS
ASBESTOS WORKER (Registered after 1/1/2025)		7500 HOURS

## IV. <u>TERM OF APPRENTICESHIP</u>:

(For apprentices registered prior to 12/31/2024) 6,000 hours, within four twelve (12) month periods of reasonably continuous employment.

(For apprentices registered after (1/1/2025) 7,500 hours, within five twelve (12) month periods of reasonably continuous employment.

### V. INITIAL PROBATIONARY PERIOD:

(For apprentices registered prior to 12/31/2024) 1,200 hours of employment shall constitute the probationary period.

(For apprentices registered after (1/1/2025) 1,500 hours of employment shall constitute the probationary period.

#### VII. <u>APPRENTICE WAGES AND WAGE PROGRESSION:</u>

#### C. Asbestos Worker: (For apprentices registered prior to 12/31/2024

Sten	Hour Range or	Percentage of journey-level wage
Step	competency step	rate
1	0000 - 1400 hours	60%
2	1401 - 2900 hours	70%
3	2901 - 4400 hours	80%
4	4401 - 6000 hours	90%

#### (For apprentices registered after (1/1/2025)

Stop	Hour Range or	Percentage of journey-level wage
Step	competency step	rate
<u>1</u>	<u>0000 - 1500 hours</u>	<u>60%</u>
2	<u>1501 - 3000 hours</u>	<u>65%</u>
3	3001 - 4500 hours	70%
4	4501 - 6000 hours	80%
5	6001-7500 hours	90%

#### VIII. WORK PROCESSES:

**<u>B.</u>** <u>Asbestos Worker: (Apprentices registered after 12/1/2025)</u>

**Approximate Hours** 

 1.
 Commercial
 3000

 Plumbing, heating, air conditioning, (ducts covering and linings including plenums). Metal lagging pertaining to insulation. Pre-tab fittings, headcovers, Firestopping and fire penetration and related work.

#### FROM: SPOKANE HEAT AND FROST INSULATORS AND ALLIED WORKERS APPRENTICESHIP COMMITTEE #272

- 3. Asbestos Awareness and Safety Training......40
- 5. Prefabrication......1000 (Fittings, Heads, pads, thermal tapes, miters, layouts, and rolled materials)

TOTAL HOURS:7500

C. NOTE: The committee realizes that the completion of 7500 hours of on-the-job training is ideal but recognizes that most apprentices will not be able to fulfill the total amount of hours specified in every work process as set forth in these standards. When an apprentice is unable to fulfill the total work hours in each process the committee will evaluate the apprentice's knowledge, skills and abilities and provide appropriate additional related instruction to assure competency is acquired in each work process. The evaluation and summary of the additional instruction will be noted in the apprentice's file.

## IX. <u>RELATED/SUPPLEMENTAL INSTRUCTION:</u>

C. Additional Information:

2. Apprentices registered after 1/1/2025 will attend 200 hours RSI for the first year, years 2-5 will attended 160 hours per year.

For L&I Staff Use Only		
Christina Chance 11/18/2024	Teri Gardner 11-21-24	
Christina Chance 11/18/2024	T <u>eri Gardner 11-18-24</u>	
L&I Apprenticeship Consultant	L&I Admin	

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# Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Name		
Spokane Heat and Frost Insulators and Allied Workers Apprenticeship Committee		
Occupation		
Asbestos Worker		
Term/OJT Hours	Total RSI Hours	
7500	840	
Training Provider		
Spokane Heat and Frost Insulators and Allied Workers Apprenticeship Committee		

By the signature placed below, the **program sponsor** agrees to provide the prescribed RSI for each registered apprentice and assures that:

- 1. The RSI content and delivery method is and remains reasonably consistent with the latest occupational practices, improvements, and technical advances.
- 2. The RSI is coordinated with the on-the-job work experience.
- 3. The RSI is provided in safe and healthful work practices in compliances with WISHA and applicable federal and state regulations.
- 4. The RSI Plan is maintained, updated and submitted to the Department a minimum of once every 5 years (WSATC Policy 2015-01; rev, 10-21-21).
- 5. The RSI will be conducted by instructors who meet the qualification of the "competent instructor" as described in WAC 296-05-003:
  - a. Has demonstrated a satisfactory employment performance in her/her occupation for a minimum of three years beyond the customary learning period for that occupation; and
  - b. Meets the State Board for Community and Technical Colleges requirements for a professional technical instructor (see WAC 131-16-080 through -094), or be a subject matter expert, which is an individual, such as a journey worker, who is recognized within the industry as having expertise in a specific occupation; and
  - c. Has training in teaching techniques and adult learning styles, which may occur before or within one year after the apprenticeship instructor has started to provide the related technical instruction.
- 6. If using alternative forms of instruction, such as correspondence, electronic media, or other self-study, instruction shall be clearly defined.

# Signatures on next page

# Form must be signed by Committee Chair and Secretary or Program's Authorized Signer

☐ Chair ⊠ Authorized Signer	Date 11/20/2024	Secretary	Date
Print Name:		Print Name:	
Andrew Richman			
Signature:		Signature:	
Autril	$\wedge$		

## **Training Provider Signature**

Approved By (Print Name): Andrew Richman	Title: Apprenticeship Coordinator/Instructor
Signature of the Training Provider:	
Date: 11/20/2024	

If additional training providers are needed, go to page 4.

### SBCTC

Print Name:	Title:
Signature of the Program Administrator:	
Date:	
□ SBCTC recommends approval □ SBC	TC recommends return to sponsor

Program Name Spokane Heat and Frost Insulators and Allied	Occupational Objective
Workers Apprenticeship Committee	

*Note:* The description of each element must be in sufficient detail to provide adequate information for review by the SBCTC and Review Committee. To add more elements, click on the plus sign that appears below the "Description of Element/Course" field.

# Describe minimum hours of study per year in terms of (check one):

 $\boxtimes$  12-month period from date of registration.

- □ Defined 12-month school year.
- $\Box$  2,000 hours of on-the-job training.

Element/Course: Orientation to Mechanical Insulation Yr. 1	Planned Hours: 40		
Mode of Instruction (check all that apply)			
⊠ Classroom □ Lab □ Online □ Self-Study			
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprentic	ceship Committee		
Description of element/course:			
Introduction of apprentice responsibilities (standards, work hour history sl	heets, field evaluation sheets).		
Introduction to shop protocol (attendance, appropriate attire/PPE, clean-u	up, shop safety video with quiz).		
Introduction to jobsite responsibilities (professional craftsman code of cor	nduct, show-up and quitting times,		
breaks, journeyman to apprentice ratio and supervision). Sexual harassm	nent training with quiz. Insulation		
sizes and thicknesses (callout size vs actual size). Properties of a circle (	bisecting and trisecting, definitions).		
Element/Course: Element/Course Respiratory Protection Yr. 1	Planned Hours: 10		
Mode of Instruction (check all that apply)			
🖾 Classroom 🛛 Lab 🗌 Online 🗌 Self-Study			
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprentic	ceship Committee		
Description of element/course:			
Description of different types of respiratory protection. Appropriate fitting.	Video on respiratory protection.		
Proper use and storage of respirators. Demonstration on donning and do	ffing a respirator. Fit testing. 6 hrs		
class 4 hrs lab			
Element/Course: History of the Trade Yr. 1	Planned Hours: 10		
Mode of Instruction (check all that apply)	·		
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study			
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprentic	ceship Committee		
Description of element/course:			
Beginning in 1903 through the present-day history of how our trade came	e to be and the importance of the		
trade to the industry. Exploring the evolution of insulation throughout the	years and how health and safety		
standards play a role in the evolution.	-		
Element/Course: OSHA 10 Yr. 1	Planned Hours: 10		
Mode of Instruction (check all that apply)			
$\boxtimes$ Classroom $\boxtimes$ Lab $\square$ Online $\square$ Self-Study			
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprentic	ceship Committee		
Description of element/course:			
It is required on most jobsites in our Local's territory to carry a valid OSH/	A 10 card. Topics covered are: Intro		
to OSHA, Falls, Electrocution, Struck-by, Caught-in or between, PPE, Health hazards in construction,			
Scaffold safety, Material handling, Use and disposal. 6 hrs class 4 hrs lab	)		
Element/Course: Firestop Training and Certification Yr. 1	Planned Hours: 40		
Mode of Instruction (check all that apply)			
🛛 🖾 Classroom 🖉 Lab 🗆 Online 🗆 Self-Study			
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship Committee			

Description of element/course:

Train and certify apprentices in the 3 major brands of firestopping and fireproofing (STI, Hilti, 3M). Apprentices will firestop and fireproof a mock-up. Identifying the appropriate system to be used in certain scenarios. History of firestopping and fireproofing. 30 hrs class 10 hrs lab

Element/Course: First Aid/CPR/AED Yr. 1	Planned Hours: 8	
Mode of Instruction (check all that apply)		
🛛 Classroom 🛛 Lab 🗆 Online 🗆 Self-Study		
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship (	Committee	
Description of element/course:		
It is required that all card-carrying members keep and maintain a current 1 <sup>st</sup> Aid/CPR/AED card. It is also		
required that it be renewed bi-annually. Initial training will be an 8-hour course. 4	hrs class 4 hrs lab	
Element/Course: Math Yr. 1	Planned Hours: 25	
Mode of Instruction (check all that apply)		
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study		

Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship Committee

Description of element/course:

Math is a major part of our trade. Apprentices will learn to be proficient in: addition, subtraction, multiplying,
dividing, fractions, decimals, area, and perimeter. It is also necessary to learn algebra and geometry to
perform layouts of patterns for insulation and jacketing.

Element/Course: Asbestos Awareness Yr. 1	Planned Hours: 10	
Mode of Instruction (check all that apply)		
🛛 Classroom 🛛 Lab 🗌 Online 🗌 Self-Study		
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship C	Committee	
Description of element/course:		
Apprentices will learn the hazards of asbestos. Topics covered are: safe handling procedures, proper		
disposal procedures, containment building, required PPE, testing of suspected ACM, health monitoring,		
definitions and certification requirements. 6 hrs class 4 hrs lab		

Element/Course: Boom and Scissor Lift Training Yr. 1	Planned Hours: 8
Mode of Instruction (shock all that apply)	
Node of instruction (check an that apply)	
🖾 Classroom 🛛 Lab 🗌 Online 🔲 Self-Study	
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship C	Committee
Description of element/course:	
4 hours of classroom work provided by a qualified instructor on the safe practices	s and proper techniques to
operate MEWPS. 4 hours of hands-on training and certification by a qualified insprocedures and inspections.	tructor of proper operating

Element/Course: Geometric Layouts Yr.1	Planned Hours:	30
Mode of Instruction (check all that apply)		
🛛 Classroom 🛛 Lab 🗋 Online 🖾 Self-Study		
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship Committee		
Description of element/course:		
Apprentices will learn how to use geometry to perform the following layouts: equal tee, unequal tee, lateral		
45, unequal lateral 45.		

 Element/Course:
 Safety Videos Yr. 1
 Planned Hours:

 Mode of Instruction (check all that apply)
 Image: Classroom in the provided by: Classroom in the provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship Committee
 Description of element/course:

9

Creating a strong safety culture is very important to the health and welfare of apprentices. The following videos help create that culture and are accompanied by a quiz at the end of the video and brief discussion. Each video, discussion period and quiz will last 1 hour. All videos are from the National Safety Compliance library and include: Ladder safety, Sexual harassment, hearing conservation, slips/trips/falls, hand and power tool safety, eye safety, scaffold safety, confined space entry, lockout/tagout.

Lelamont/(`oureo: (`ommoreial Dino and Duct Work Vr. ?	Plannod Hours: 10
Mode of Instruction (check all that apply)	Flaimed Hours. 40
$\square$ Classroom $\square$ Lab $\square$ Online $\square$ Self-Study	
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Committee
Description of element/course:	Committee
Apprentices will learn key definitions and blueprint schematics pertaining to con	nmercial pipe insulation and
duct work. There will be both classroom work and hands-on practical work done	on mock-up modules in the
lab 20 hrs class 20 hrs lab	
Element/Course: Removable Blanket Construction Yr. 2	Planned Hours: 30
Mode of Instruction (check all that apply)	
⊠ Classroom ⊠ Lab □ Online □ Self-Study	
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Committee
Description of element/course:	
This training will consist of both conventional blanket construction and sewing.	Apprentices will learn how to
properly measure blankets, when and where to use blankets, construction of re	movable blankets with a
clinch stapler (manual and pneumatic). After learning some basics apprentices	will apply these techniques
on various mock valve and piping modules in the lab. 20 hrs class 10 hrs lab	
Element/Course: Math Yr 2	Planned Hours: 20
Mode of Instruction (check all that apply)	
$\square$ Classroom $\square$ Lab $\square$ Online $\square$ Self-Study	
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Committee
Description of element/course:	Committee
Math is a major part of our trade. Apprentices will learn to be proficient in: additional states additional states and the states additional states and the states additional states and the states additional states and states additional states a	on, subtraction, multiplying,
dividing, fractions, decimals, area, and perimeter. It is also necessary to learn a	lgebra and geometry to
perform layouts of patterns for insulation and jacketing	gennen geennen j
Element/Course: Geometric Lavouts Yr 2	Planned Hours: 30
Element/Course: Geometric Layouts Yr. 2 Mode of Instruction (check all that apply)	Planned Hours: 30
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)         Image: Classroom       Lab       Online       Self-Study	Planned Hours: 30
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)         Image: Second structure         Image: Classroom structure         Image: Lab structure         Image: Second structure         Image: Second structure         Geometric Layouts Yr. 2         Image: Second structure         Image: Second structure         Geometric Layouts Yr. 2         Image: Second structure         Image: Second structure         Geometric Layouts Yr. 2         Image: Second structure         Image: Second structure         Image: Second structure         Geometric Layouts Yr. 2         Image: Second structure	Planned Hours: 30
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)         Image: Classroom       Lab       Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:	Planned Hours: 30
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)         Image: Classroom       Lab       Online       Self-Study         Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:         Apprentices will learn how to use geometry to perform the following layouts: Ra	Planned Hours: 30 Committee dial line development, miters
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)         ⊠ Classroom       □ Lab       □ Online       □ Self-Study         Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:         Apprentices will learn how to use geometry to perform the following layouts: Ra and gores, reading a miter chart, butterfly 90.	Planned Hours: 30 Committee dial line development, miters
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)       Image: Classroom       Image: Lab       Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:         Apprentices will learn how to use geometry to perform the following layouts: Ra and gores, reading a miter chart, butterfly 90.	Planned Hours: 30 Committee dial line development, miters
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)       Image: Self-Study         Image: Classroom       Image: Lab       Image: Online       Image: Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to use geometry to perform the following layouts: Ra and gores, reading a miter chart, butterfly 90.         Element/Course:       Asbestos Awareness Yr 2	Planned Hours: 30 Committee dial line development, miters Planned Hours: 10
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)       □         □       Classroom       □       Lab       □       Online       □       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to use geometry to perform the following layouts: Ra and gores, reading a miter chart, butterfly 90.         Element/Course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)	Planned Hours: 30 Committee dial line development, miters Planned Hours: 10
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Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)       Image: Classroom       Image: Lab       Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to use geometry to perform the following layouts: Ra and gores, reading a miter chart, butterfly 90.         Element/Course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)       Online       Self-Study         Provided by:       Spokane Heat & Frost & Allied Workers Apprenticeship Committee         Description of element/course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)       Online       Self-Study         Provided by:       Spokane Heat & Frost & Allied Workers Apprenticeship Committee         Description of element/course:       Apprentices will learn the hazards of asbestos. Topics covered are: safe handling	Planned Hours: 30 Committee dial line development, miters Planned Hours: 10 Planned Hours: proper
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)       Image: Classroom       Lab       Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to use geometry to perform the following layouts: Ra and gores, reading a miter chart, butterfly 90.         Element/Course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)       Image: Classroom         Image: Classroom       Lab       Online         Self-Study       Provided by: Spokane Heat & Frost & Allied Workers Apprenticeship Committee         Description of element/course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)       Image: Classroom         Image: Classroom       Lab       Online         Image: Classroom       Lab       Online         Description of element/course:       Apprentices will learn the hazards of asbestos. Topics covered are: safe handling disposal procedures, containment building, required PPE, testing of suspected	Planned Hours: 30 Committee dial line development, miters Planned Hours: 10 Planned Hours: 10
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)         ☑ Classroom       Lab       Online       Self-Study         Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:         Apprentices will learn how to use geometry to perform the following layouts: Ra         and gores, reading a miter chart, butterfly 90.         Element/Course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)         ☑ Classroom       ☑ Lab         ☑ Online       □ Self-Study         Provided by: Spokane Heat & Frost & Allied Workers Apprenticeship Committee         Description of element/course:         Apprentices will learn the hazards of asbestos. Topics covered are: safe handlind disposal procedures, containment building, required PPE, testing of suspected of definitions and certification requirements. 6 hrs class 4 hrs lab	Planned Hours: 30 Committee dial line development, miters Planned Hours: 10 Planned Hours: 10 e ng procedures, proper ACM, health monitoring,
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)         ☑ Classroom       Lab       Online       Self-Study         Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:         Apprentices will learn how to use geometry to perform the following layouts: Ra         and gores, reading a miter chart, butterfly 90.         Element/Course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)         ☑ Classroom       ☑ Lab         Online       □ Self-Study         Provided by: Spokane Heat & Frost & Allied Workers Apprenticeship Committee         Description of element/course:         Apprentices will learn the hazards of asbestos. Topics covered are: safe handlind disposal procedures, containment building, required PPE, testing of suspected and definitions and certification requirements. 6 hrs class 4 hrs lab	Planned Hours:       30         Committee         dial line development, miters         Planned Hours:       10         e         ng procedures, proper         ACM, health monitoring,
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)       □         □       Classroom       □       Lab       □       Online       □       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to use geometry to perform the following layouts: Ra and gores, reading a miter chart, butterfly 90.         Element/Course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)       □       Classroom       □       Lab       □       Online       □       Self-Study         Provided by:       Spokane Heat & Frost & Allied Workers Apprenticeship Committee       Description of element/course:       Apprentices will learn the hazards of asbestos. Topics covered are: safe handlind isposal procedures, containment building, required PPE, testing of suspected of definitions and certification requirements. 6 hrs class 4 hrs lab         Element/Course:       Introduction to Industrial Pipe Insulation Yr 2	Planned Hours:       30         Committee         dial line development, miters         Planned Hours:       10         e         ng procedures, proper         ACM, health monitoring,         Planned Hours:       30
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)       □         □       Classroom       □       Lab       □       Online       □       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to use geometry to perform the following layouts: Ra         and gores, reading a miter chart, butterfly 90.         Element/Course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)         □       Classroom         □       Dolline         □       Self-Study         Provided by:       Spokane Heat & Frost & Allied Workers Apprenticeship Committee         Description of element/course:       Apprentices will learn the hazards of asbestos. Topics covered are: safe handlind disposal procedures, containment building, required PPE, testing of suspected of definitions and certification requirements. 6 hrs class 4 hrs lab         Element/Course:       Introduction to Industrial Pipe Insulation Yr. 2         Mode of Instruction (check all that apply)       Introduction to Industrial Pipe Insulation Yr. 2	Planned Hours:       30         Committee         dial line development, miters         Planned Hours:       10         e         ng procedures, proper         ACM, health monitoring,         Planned Hours:       30
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)       □         Self-Study       Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to use geometry to perform the following layouts: Ra and gores, reading a miter chart, butterfly 90.         Element/Course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)       □         Classroom       □         Lab       □         Provided by: Spokane Heat & Frost & Allied Workers Apprenticeship Committee         Description of element/course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)       □         Classroom       □       Dolline         Description of element/course:       Apprentices will learn the hazards of asbestos. Topics covered are: safe handlind disposal procedures, containment building, required PPE, testing of suspected of definitions and certification requirements. 6 hrs class 4 hrs lab         Element/Course:       Introduction to Industrial Pipe Insulation Yr. 2         Mode of Instruction (check all that apply)       □         Classroom       □       Dolline         Self-Study       □	Planned Hours:       30         Committee
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)       □         Classroom       □       Lab       □         Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:         Apprentices will learn how to use geometry to perform the following layouts: Ra         and gores, reading a miter chart, butterfly 90.         Element/Course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)         ☑ Classroom       ☑ Lab       □ Online         Description of element/course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)       ☑ Classroom       ☑ Lab         ☑ Classroom       ☑ Lab       □ Online       □ Self-Study         Provided by: Spokane Heat & Frost & Allied Workers Apprenticeship Committee       Description of element/course:         Apprentices will learn the hazards of asbestos. Topics covered are: safe handlin       disposal procedures, containment building, required PPE, testing of suspected         definitions and certification requirements. 6 hrs class 4 hrs lab       Element/Course:       Introduction to Industrial Pipe Insulation Yr. 2         Mode of Instruction (check all that apply)       ☑ Classroom       ☑ Lab       Online       Self-Study         Provided by: Spokane	Planned Hours:       30         Committee         dial line development, miters         Planned Hours:       10         e         ng procedures, proper         ACM, health monitoring,         Planned Hours:       30         Committee
Element/Course:       Geometric Layouts Yr. 2         Mode of Instruction (check all that apply)       □         Classroom       □       Lab       □       Online       □       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to use geometry to perform the following layouts: Ra and gores, reading a miter chart, butterfly 90.         Element/Course:       Asbestos Awareness Yr 2         Mode of Instruction (check all that apply)       □         Classroom       □       Lab       □       Online       Self-Study         Provided by:       Spokane Heat & Frost & Allied Workers Apprenticeship Committee         Description of element/course:       Apprentices will learn the hazards of asbestos. Topics covered are: safe handlind disposal procedures, containment building, required PPE, testing of suspected of definitions and certification requirements. 6 hrs class 4 hrs lab         Element/Course:       Introduction to Industrial Pipe Insulation Yr. 2         Mode of Instruction (check all that apply)       □       Classroom       □       Lab       □       Online       □       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship       □       Description of element/course:       Self-Study         Provide	Planned Hours:       30         Committee         dial line development, miters         Planned Hours:       10         e         ng procedures, proper         ACM, health monitoring,         Planned Hours:       30         Committee         Committee

Apprentices will learn key definitions and blueprint schematics pertaining to industrial pipe insulation. There will be both classroom work and hands-on practical work done on mock-up modules in the lab. 20 hrs class 10 hrs lab

Element/Course: Refrigeration Piping, Tanks and Vessels Yr. 3	Planned Hours: 40
Mode of Instruction (check all that apply)	
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study	
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Committee
Description of element/course:	inculate them. They will also
Apprentices will learn now to identify reingeration systems and now to properly	there to use them. Sufficient
lab work will be required for this training due to the fact that it takes a lot of stop	s to properly insulate
cold/cryogonic work and loarning these stops are crucial to proventing system f	ailures. Lab that will be done
includes: learning refrigeration cutting of various materials, vanor barriers of various	rious sorts using a foam dun
properly using different types of mastics, applying refrigeration materials to pin	es tanks and vessels
proper jacketing procedures and calking 20 hrs class 20 hrs lab	
Element/Course: Removable Blanket Construction Yr. 3	Planned Hours: 20
Mode of Instruction (check all that apply)	-
🛛 Classroom 🖾 Lab 🗆 Online 🗆 Self-Study	
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Committee
Description of element/course:	
I his training will consist of both conventional blanket construction and sewing.	Apprentices will learn now to
property measure blankets, when and where to use blankets, construction of re	movable blankets with a
clinch stapler (manual and pheumatic). After learning some basics apprentices	will apply these techniques
on various mock valve and piping modules in the lab. To his class to his lab	
Element/Course: Math Vr. 3	Planned Hours: 16
Mode of Instruction (check all that apply)	Tianned Hours. To
$\square$ Classroom $\square$ Lab $\square$ Online $\square$ Self-Study	
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship Committee	
Description of element/course:	
Math is a major part of our trade. Apprentices will learn to be proficient in: addit	ion, subtraction, multiplying,
dividing, fractions, decimals, area, and perimeter. It is also necessary to learn a	lgebra and geometry to
perform layouts of patterns for insulation and jacketing.	
Element/Course: Elastomeric Insulation Layouts and Applications Yr. 3	Planned Hours: 40
$\square$ Classroom $\square$ Lab $\square$ Online $\square$ Self-Study	
Provided by: Spekane Heat & Frest Insulators & Allied Workers Appropriate	Committee
Description of element/course:	Committee
Apprentices will learn about the different types of elastomeric insulation. How to	properly cut and glue
elastomeric insulation. They will review the SDS on the different glues and mas	tics and when and where to
use them. 30 hrs class 10 hrs lab	
Element/Course: First Aid/CPR/AED Refresher Yr. 3	Planned Hours: 4
Mode of Instruction (check all that apply)	
□ Classroom □ Lab □ Online □ Self-Study	0
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Committee
t is required that all card-carrying members keep and maintain a current 1st Δid	I/CPR/AFD card. It is also
required that it be renewed bi-annually 2 hrs class 2 hrs lab	
Element/Course: Asbestos Awareness Yr. 3	Planned Hours: 10
Mode of Instruction (check all that apply)	
🖾 Classroom 🛛 Lab 🗆 Online 🗆 Self-Study	
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Committee

Description of element/course:

Apprentices will learn the hazards of asbestos. Topics covered are: safe handling procedures, proper disposal procedures, containment building, required PPE, testing of suspected ACM, health monitoring, definitions and certification requirements. 6 hrs class 4 hrs lab

Element/Course: Geometric Layouts Yr. 3	Planned Hours:	30
Mode of Instruction (check all that apply)		
□ ⊠ Classroom □ Lab □ Online □ Self-Study		
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Committee	
Apprentices will learn how to use geometry to perform the following layouts: Co	oncentric reducer, ec	centric
reducer.		oontino
Element/Course: Asbestos Awareness Yr. 4	Planned Hours:	10
Mode of Instruction (check all that apply)		_
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study		
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	o Committee	
Description of element/course:		
Apprentices will learn the hazards of asbestos. Topics covered are: safe handl	ing procedures, prop	er
disposal procedures, containment building, required PPE, testing of suspected	ACM, nealth monito	ring,
definitions and certification requirements. 6 hrs class 4 hrs lab		
Element/Course: Coometrie Levente Vr. 4	Diana Liaura	40
Element/Course: Geometric Layouts 11.4	Planned Hours:	40
$\square$ Classroom $\square$ Lab $\square$ Online $\square$ Self-Study		
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeshir	Committee	
Description of element/course:		
Apprentices will learn how to use geometry to perform the following layouts: He	ead gores, understan	ding a
lagging chart. 30 hrs class 10 hrs lab	-	-
Element/Course: Math Yr. 4	Planned Hours:	20
Mode of Instruction (check all that apply)		
	<b>o</b> 14	
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Committee	
Description of element/course: Math is a major part of our trade. Apprentices will learn to be proficient in: addition, subtraction, multiplying		
dividing fractions decimals area and perimeter. It is also necessary to learn	algebra and geometry	v to
perform layouts of patterns for insulation and jacketing.	algobia ana goomoa	y 10
Element/Course: Industrial Pipe Insulation/Advanced Metal Lavouts Yr.4	Planned Hours:	50
Mode of Instruction (check all that apply)		
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study		
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	o Committee	
Description of element/course:	· · · · · · · · · · -	
Apprentices will learn about the different types of insulation commonly used or	i industrial jobsites. I	hey will
work as a team to insulate and jacket a large steel pipe loop consisting of valve	es, various bends, pro	essure
thus for 20 hrs along 20 hrs lob	s they have already in	eamed
Element/Course: Refrigeration Dining Tanks and Vascals Vr. 4		40
Element/Course: Refrigeration Piping, Tanks and Vessels Yr. 4	Planned Hours:	40
Element/Course:       Refrigeration Piping, Tanks and Vessels Yr. 4         Mode of Instruction (check all that apply)         Image: Classroom in the second seco	Planned Hours:	40
Element/Course:       Refrigeration Piping, Tanks and Vessels Yr. 4         Mode of Instruction (check all that apply)         ⊠ Classroom       ⊠ Lab       □ Online       □ Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeshir	Planned Hours:	40
Element/Course:       Refrigeration Piping, Tanks and Vessels Yr. 4         Mode of Instruction (check all that apply)         Image: Classroom in the structure of the s	Planned Hours:	40
Element/Course:       Refrigeration Piping, Tanks and Vessels Yr. 4         Mode of Instruction (check all that apply)         Image: Classroom       Image: Lab       Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to identify refrigeration systems and how to properly	Planned Hours:	40 will also
Element/Course:       Refrigeration Piping, Tanks and Vessels Yr. 4         Mode of Instruction (check all that apply)         Image: Classroom       Image: Lab       Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to identify refrigeration systems and how to properly         learn the different types of insulation used in refrigeration work and when and the different types of insulation used in refrigeration work and when and the different types of insulation used in refrigeration work and when and the different types of insulation used in refrigeration work and when and the different types of insulation used in refrigeration work and when and the different types of insulation used in refrigeration work and when and the different types of insulation used in refrigeration work and when and the different types of insulation used in refrigeration work and when and the different types of insulation used in refrigeration work and when and the different types of insulation used in refrigeration work and when and the different types of insulation used in refrigeration work and when and the difference with the difference withe difference with the difference with the difference wit	Planned Hours: Committee insulate them. They where to use them. S	40 will also ufficient
Element/Course:       Refrigeration Piping, Tanks and Vessels Yr. 4         Mode of Instruction (check all that apply)       Image: Self-Study         ✓ Classroom       Image: Lab       Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to identify refrigeration systems and how to properly         learn the different types of insulation used in refrigeration work and when and we lab work will be required for this training due to the fact that it takes a lot of step	Planned Hours: Committee insulate them. They where to use them. S os to properly insulate	40 will also ufficient e

includes: learning refrigeration cutting of various materials, vapor barriers of various sorts, using a foam gun properly, using different types of mastics, applying refrigeration materials to pipes, tanks, and vessels, proper jacketing procedures and calking. 10 hrs lab 30 hrs lab

Element/Course: Mud and Fab Glass Work Yr. 5	Planned Hours: 40
Mode of Instruction (check all that apply)	
⊠ Classroom ⊠ Lab □ Online □ Self-Study	
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Committee
Description of element/course:	de sur la constitución Theorem III
Apprentices will learn now to identify the different types of mud and when and w	nere to use them. They will
learn about the proper tools to use while applying mud. They will learn how to secure chicken wire to a tank,	
vessel, and head. Proper finishing techniques. 20 hrs lab 20 hrs lab	
Flowert/Courses Industrial Tank and Vascal Insulation and Cladding Vr. 5	Dispand Lioures 40
Element/Course: Industrial Tank and Vessel Insulation and Cladding Tr. 5	Planned Hours: 40
$\square$ Classroom $\square$ Lab $\square$ Online $\square$ Self-Study	
Provided by: Spekane Heat & Frest Insulators & Allied Workers Apprenticeship	Committee
Description of element/course:	Committee
Apprentices will be introduced to industrial materials used in the insulation of tar	nks and vessels. They will
learn the temperature ranges of the different types of insulation, when and when	e to use the different types.
methods of fastening insulation to both tanks and vessels. How to use a pin well	der Proper cladding
techniques and fastening techniques for the cladding. Apprentices will then appl	ly what they learned to a
large tank mock-up and vessel mock-up. 20 hrs class 20 hrs lab	ly what they learned to a
Element/Course: Foreman Training Yr. 5	Planned Hours: 20
Element/Course: Foreman Training Yr. 5 Mode of Instruction (check all that apply)	Planned Hours: 20
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)         Image: Self-Study	Planned Hours: 20
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)         ☑ Classroom       □ Lab       □ Online       □ Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Planned Hours: 20
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)         ☑ Classroom       □ Lab       □ Online       □ Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:	Planned Hours: 20
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)         ☑ Classroom       □ Lab       □ Online       □ Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to conduct themselves as a foreman on a jobsite. This	Planned Hours: 20 Committee is training will include:
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)         Image: Classroom       Image: Lab       Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to conduct themselves as a foreman on a jobsite. This         COMET training, time management, material management and ordering, labor state	Planned Hours: 20 Committee is training will include: supervision, in-depth
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)         ☑ Classroom       □ Lab       □ Online       □ Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to conduct themselves as a foreman on a jobsite. This         COMET training, time management, material management and ordering, labor so blueprint reading, how and when to do a change order, how to handle an upset	Planned Hours: 20 Committee is training will include: supervision, in-depth employee, and scheduling.
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)         ☑ Classroom       □ Lab       □ Online       □ Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:         Apprentices will learn how to conduct themselves as a foreman on a jobsite. This         COMET training, time management, material management and ordering, labor so         blueprint reading, how and when to do a change order, how to handle an upset         There will be extensive role-play activities.	Planned Hours: 20 Committee is training will include: supervision, in-depth employee, and scheduling.
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)       Image: Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to conduct themselves as a foreman on a jobsite. This         COMET training, time management, material management and ordering, labor so       blueprint reading, how and when to do a change order, how to handle an upset         There will be extensive role-play activities.	Planned Hours: 20 <u>Committee</u> is training will include: supervision, in-depth employee, and scheduling.
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)       Image: Classroom       Image: Lab       Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to conduct themselves as a foreman on a jobsite. This         COMET training, time management, material management and ordering, labor so blueprint reading, how and when to do a change order, how to handle an upset         There will be extensive role-play activities.         Element/Course:       Blueprint Reading Yr. 5	Planned Hours: 20 Committee is training will include: supervision, in-depth employee, and scheduling. Planned Hours: 20
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)       □         □       Classroom       □       Lab       □       Online       □       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to conduct themselves as a foreman on a jobsite. This         COMET training, time management, material management and ordering, labor so blueprint reading, how and when to do a change order, how to handle an upset         There will be extensive role-play activities.         Element/Course:       Blueprint Reading Yr. 5         Mode of Instruction (check all that apply)	Planned Hours:       20         Committee
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)       □         □       Classroom       □       Lab       □       Online       □       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to conduct themselves as a foreman on a jobsite. This         COMET training, time management, material management and ordering, labor so blueprint reading, how and when to do a change order, how to handle an upset         There will be extensive role-play activities.         Element/Course:       Blueprint Reading Yr. 5         Mode of Instruction (check all that apply)         ☑       Classroom         ☑       Lab       Online       □       Self-Study	Planned Hours:       20         Committee
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)       □         □       Classroom       □       Lab       □       Online       □       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to conduct themselves as a foreman on a jobsite. This         COMET training, time management, material management and ordering, labor so       blueprint reading, how and when to do a change order, how to handle an upset         There will be extensive role-play activities.         Element/Course:       Blueprint Reading Yr. 5         Mode of Instruction (check all that apply)         ☑       Classroom         ☑       Lab       Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship	Planned Hours: 20 Committee is training will include: supervision, in-depth employee, and scheduling. Planned Hours: 20 Committee
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)         ☑ Classroom       □ Lab       □ Online       □ Self-Study         Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:         Apprentices will learn how to conduct themselves as a foreman on a jobsite. This         COMET training, time management, material management and ordering, labor so         blueprint reading, how and when to do a change order, how to handle an upset         There will be extensive role-play activities.         Element/Course:       Blueprint Reading Yr. 5         Mode of Instruction (check all that apply)         ☑ Classroom       ☑ Lab         Online       □ Self-Study         Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:	Planned Hours:       20         Committee
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)         ☑ Classroom       □ Lab       □ Online       □ Self-Study         Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:         Apprentices will learn how to conduct themselves as a foreman on a jobsite. This         COMET training, time management, material management and ordering, labor is         blueprint reading, how and when to do a change order, how to handle an upset         There will be extensive role-play activities.         Element/Course:       Blueprint Reading Yr. 5         Mode of Instruction (check all that apply)         ☑ Classroom       ☑ Lab         Online       □ Self-Study         Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn to read blueprints and spec sheets for commercial and induces         Description of element/course:       Apprentices will learn to read blueprints and spec sheets for commercial and induces	Planned Hours:       20         Committee
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)       Image: Classroom in the lab in the original origin	Planned Hours:       20         Committee
Element/Course:       Foreman Training Yr. 5         Mode of Instruction (check all that apply)       Image: Classroom       Lab       Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn how to conduct themselves as a foreman on a jobsite. This         COMET training, time management, material management and ordering, labor so         blueprint reading, how and when to do a change order, how to handle an upset         There will be extensive role-play activities.         Element/Course:       Blueprint Reading Yr. 5         Mode of Instruction (check all that apply)         Image: Classroom       Lab         Online       Self-Study         Provided by:       Spokane Heat & Frost Insulators & Allied Workers Apprenticeship         Description of element/course:       Apprentices will learn to read blueprints and spec sheets for commercial and indice         learn to identify symbols used to notate mechanical systems that we insulate. The achange order for anything that was missed on the blueprints. 12 hrs class 8 hr	Planned Hours:       20         Committee

Element/Course: Journeyman Testing Yr. 5	Planned Hours: 40	
Mode of Instruction (check all that apply)		
🖾 Classroom 🛛 Lab 🗌 Online 🔲 Self-Study		
Provided by: Spokane Heat & Frost Insulators & Allied Workers Apprenticeship Committee		
Description of element/course:		
Apprentices will have 10 hours to complete a written exam and 30 hours to complete a hands-on mock		
piping system with various types of techniques of insulation and jacketing.		

# Additional Training Providers (if necessary)

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F100-520-000 Apprenticeship Related/Supplement Instruction (RSI) Plan Review 01-2022