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RECEIVED 8/6/2024 SNYS

L&I Apprenticeship Consultant

*Teri Gardner 8-16-24*

L&I Admin

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: Chelan County Public Utility District No. 1 Apprenticeship Committee #164

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

- Additions shall be underlined (underlined).
- Deletions shall be struck through (~~struck through~~).
- See attached.

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

<input type="checkbox"/> Chair	Date <u>8/6/2024</u>	<input type="checkbox"/> Secretary	Date
<input checked="" type="checkbox"/> Authorized Signer			
Print Name: Dave Parkhill		Print Name:	
Signature:		Signature:	

Approved By: <b>Washington State Apprenticeship &amp; Training Council</b>
Signature of Secretary of the WSATC:
Date:

*Attach additional sheets if necessary*

Cover Page

<u>Occupational Objective(s):</u>	<u>SOC#</u>	<u>Term [WAC 296-05-015]</u>
<b>ELECTRIC UTILITY TECHNICIAN</b>	<b>47-2111.00</b>	<b>8000 HOURS</b>
<b>FIBER NETWORK TECHNICIAN</b>	<b>49-9052.00</b>	<b>4000 HOURS</b>
<b>GENERATION MECHANIC</b>	<b>49-9041.00</b>	<b>6000 HOURS</b>
<b>GENERATION WIREMAN</b>	<b>49-2095.00</b>	<b>6000 HOURS</b>
<b>LINEMAN</b>	<b>49-9051.00</b>	<b>6000 HOURS</b>
<b>METERMAN</b>	<b>49-9012.01</b>	<b>6000 HOURS</b>
<b>OPERATOR</b>	<b>51-8013.01</b>	<b>6000 HOURS</b>
<b>POWER SYSTEMS WIREMAN</b>	<b>49-2095.00</b>	<b>6000 HOURS</b>
<b>WATER TECHNICIAN</b>	<b>51-8031.00</b>	<b>6000 HOURS</b>

IV. TERM OF APPRENTICESHIP:

The term of apprenticeship for Fiber Network Technician shall be **two (2) years (4000 hours)**. Lineman, Power Systems Wireman, Generation Wireman, Generation Mechanic, Meterman, Operators, and Water Technician shall be **three (3) years (6,000 hours)**. Electric Utility Technician shall be **four (4) years (8,000 hours)** of reasonably continuous employment and experience in the principal operations of the trade.

V. INITIAL PROBATIONARY PERIOD:

C. Apprentices employed as Fiber Network Technicians shall be subject to a probationary period not exceeding the first 800 On-The-Job Training (OJT) hours. All other apprentices employed in accordance with these Standards in other occupations shall be subject to a probationary period not exceeding the first 1200 On-The-Job Training (OJT) hours.

VII. APPRENTICE WAGES AND WAGE PROGRESSION:

C. Wage Progression Schedules

Apprentices shall be paid at the following percentage rate based on the corresponding journey level worker wage in the Collective Bargaining Agreement in accordance with WAC 296-05-316(27):

Linemen, Power Systems Wireman, Generation Wireman, Generation Mechanic, Metermen, Operator, Fiber Network Technician, and Water Technician:

VIII. WORK PROCESSES:

<u>I.</u>	<u>Fiber Network Technician:</u>	<u>Approximate Hours</u>
<u>1.</u>	<u>National, State Codes and District Policies.....</u>	<u>150</u>
	<u>a. Compliance, CIP, Procedures and Guidelines</u>	
<u>2.</u>	<u>Safety .....</u>	<u>100</u>
	<u>a. Meetings, inspection and Care or Equipment</u>	
	<u>b. Personal Protective Equipment</u>	
	<u>c. Fiber Optic, Safety Protocols</u>	
<u>3.</u>	<u>Documentation .....</u>	<u>150</u>
	<u>a. Standards and Diagrams</u>	
	<u>b. Print Reading and Cut Sheets</u>	



**Drive with the Time Verification Report in People Soft HRMS may result in disciplinary action by the Committee.**

XI. SPONSOR – RESPONSIBILITIES AND GOVERNING STRUCTURE

E. Committee governance (if applicable): (see WAC 296-05-009)

1. Apprenticeship committees shall elect a chairperson and a secretary who shall be from opposite interest groups, i.e., chairperson-employers; secretary-employees, or vice versa. If the committee does not indicate its definition of quorum, the interpretation will be “50% plus 1” of the approved committee members. The sponsor must also provide the following information:

**[Please delete and replace committee/subcommittee in its entirety]**

c. The employer representatives shall be:

**Dave Parkhill, Secretary  
203 Olds Station Road  
Wenatchee, WA 98801**

**Wes Rush  
203 Olds Station Road  
Wenatchee, WA 98801**

**Eric Steele  
203 Olds Station Road  
Wenatchee, WA 98801**

**Chris Cronrath  
203 Olds Station Road  
Wenatchee, WA 98801**

**Kevin Ahrens  
203 Olds Station Road  
Wenatchee, WA 98801**

**Brian Lowe  
203 Olds Station Road  
Wenatchee, WA 98801**

**Justin Fletcher, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Cody Murdock, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Jason Price, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Ryan Mitchell, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Shawn Desy, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Ron Slabaugh, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

d. The employee representatives shall be:

**Don Lane, Chair  
203 Olds Station Road  
Wenatchee, WA 98801**

**Kory Countryman  
203 Olds Station Road  
Wenatchee, WA 98801**

**Ed Kavanaugh  
203 Olds Station Road  
Wenatchee, WA 98801**

**Monte Milanuk  
203 Olds Station Road  
Wenatchee, WA 98801**

**Nate Merz  
203 Olds Station Road  
Wenatchee, WA 98801**

**Paul Hessburg  
203 Olds Station Road  
Wenatchee, WA 98801**

**Logan Cleek, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Jessie Nick, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Ryan Keller, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Manuel Guerrero, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Patrick Eakle, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Jeremy Burns, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Matt Treat, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Randy Bryant, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Noe Andrade, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

**Tyler McCord, Alternate  
203 Olds Station Road  
Wenatchee, WA 98801**

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**Journey Level Wage Rate**  
From which apprentices' wage rates are computed

TO: Washington State Apprenticeship & Training Council  
FROM: Chelan County Public Utility District No. 1, #164

Occupation:	County(ies):	Journey Level Wage Rate:	Effective Date:
FIBER NETWORK TECHNICIAN	The area covered by these Standards shall be the properties of Public Utility District No. 1 of Chelan County in the state of Washington.	\$46.04	4/1/2024
		\$	
		\$	
		\$	

Sponsors must submit the journey-level wage at least annually or whenever changed to the Department.

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

<input type="checkbox"/> Chair	Date <u>8/16/2024</u>	<input checked="" type="checkbox"/> Secretary	Date <u>8/16/2024</u>
<input checked="" type="checkbox"/> Authorized Signer			
Print Name: <u>Dave Parkhill</u>		Print Name: <u>Dave Parkhill</u>	
Signature:		Signature:	

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## Apprenticeship Related/Supplemental Instruction (RSI) Plan Review


Program Name Chelan County Public Utility District No. 1 Apprenticeship Committee	
Occupation Fiber Network Technician	
Term/OJT Hours 4000 hours/24 months	Total RSI Hours 288
Training Provider Chelan County Public Utility District No. 1 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**

<input type="checkbox"/> Chair	Date	<input type="checkbox"/> Secretary	Date
<input checked="" type="checkbox"/> Authorized Signer	8/5/2024		
Print Name: Dave Parkhill	Signature: 		Print Name:
Signature:			Signature:

**Training Provider Signature**

Approved By (Print Name): Dave Parkhill	Title: Training Director
Signature of the Training Provider: 	
Date: 8/5/2024	

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

**SBCTC**

Print Name:	Title:
Signature of the Program Administrator:	
Date:	
<input type="checkbox"/> SBCTC recommends approval	<input type="checkbox"/> SBCTC recommends return to sponsor



Program Name Chelan County Public Utility District No. 1 Apprenticeship Committee	Occupational Objective Fiber Network Technician
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**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):**

- 12-month period from date of registration.
- Defined 12-month school year.
- 2,000 hours of on-the-job training.

Element/Course: Year 1	Planned Hours: 144
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Online <input type="checkbox"/> Self-Study	
Provided by: Chelan County Public Utility District No. 1 Apprenticeship Committee	
Description of element/course: 1. Safety (12 hours) <ul style="list-style-type: none"> <li>A. In the shop-personal safety and protection of fellow employees. <ul style="list-style-type: none"> <li>1. Truck walk around</li> <li>2. Personal safety equipment</li> <li>3. General shop practices (including housekeeping)</li> </ul> </li> <li>B. Work safely in the field. <ul style="list-style-type: none"> <li>1. Pre field jobs before going to field</li> <li>2. Firm understanding of tasks at hand</li> <li>3. Portable equipment safety and care</li> <li>4. Observe safety equipment for functionality</li> <li>5. Rigging</li> <li>6. PPE</li> </ul> </li> <li>C. Work site safety <ul style="list-style-type: none"> <li>1. Hazardous materials</li> <li>2. Traffic control planning</li> <li>3. Confined Space</li> <li>4. Knowledge of power/communications systems around you</li> <li>5. Equipment knowledge</li> </ul> </li> </ul> <li>2. Introduction to Fiber (12 hours) <ul style="list-style-type: none"> <li>A. Fiber to Home</li> <li>B. Construction</li> <li>C. Basic splicing</li> <li>D. Viewing infrastructure layout throughout the county</li> </ul> </li> <li>3. Power Tools (10 hours) <ul style="list-style-type: none"> <li>A. Hand and fixed tools <ul style="list-style-type: none"> <li>1. Drills</li> <li>2. Impact gun</li> <li>3. Sawzall</li> <li>4. Pole drill</li> <li>5. Chainsaw</li> <li>6. Cable puller</li> </ul> </li> </ul> </li> <li>4. Hardware (10 hours) <ul style="list-style-type: none"> <li>A. Introduction to the shop and variety of day-to-day materials used to finish out daily work.</li> </ul> </li>	

5. Bucket Safety/Truck Safety (20 hours)
  - A. Truck inspection
  - B. Bucket inspection
  - C. PPE for bucket use inspection
  - D. Proper use of bucket on roadway
6. Rigging (12 hours)
  - A. Chain hoist
  - B. Knots
  - C. Dead ends
  - D. Use of straps and ropes
7. Compliance/construction standards (12 hours)
  - A. Sag
  - B. Distances between communication and power
  - C. Hole placement on pole when drilling
  - D. Clearances
  - E. When to use dead ends rather than straight through applications
8. Heavy equipment (18 hours)
  - A. Heavy trucks
  - B. Dump trucks
  - C. Boom trucks
  - D. Vac trucks
  - E. Backhoe
  - F. Forklift
9. Introduction to pole climbing (18 hours)
  - A. Set up climbing gear
  - B. Learn to inspect and sharpen gaffs
  - C. Learn to use climbing gear safely
  - D. Practice climbing
10. Fiber to Home installations (20 hours)
  - A. Hand tools
    1. Strippers
    2. Buffer tube ringers
    3. Cleavers
    4. Snips
    5. Dikes/side cutters

Element/Course: Year 2

Planned Hours: 144

Mode of Instruction (check all that apply)

Classroom  Lab  Online  Self-Study

Provided by: Light Brigade and Chelan County Public Utility District No. 1 Apprenticeship Committee

Description of element/course:

1. Splicing Introduction (24 hours)
  - A. Light Brigade course (Fiber Optics For Utilities Level 1 Technician)
2. Fusion splicers (12 hours)
  - A. AFL
  - B. Fiber Fox
  - C. Basic Function
3. Fiber tools (12 hours)
  - A. Strippers
  - B. Buffer Tube Ringers
  - C. Cleavers
  - D. Snips
  - E. Dikes, etc.
4. Fiber Cables (12 hours)
  - A. Types and counts
  - B. Proper bend radius
  - C. Fiber prep
5. Splice enclosures (12 hours)
  - A. Outdoor cases
  - B. Inside cases
  - C. Trays
  - D. Miscellaneous parts
6. OSP and Field Work (12 hours)
  - A. Aerial
  - B. Underground
  - C. Vaults
  - D. Patch panels
  - E. Nodes
  - F. Substations
7. Safety (8 hours)
  - A. PPE
8. Construction (12 hours)
  - A. General
    1. Safety practices
    2. Construction standards/best practices
    3. Understanding of fiber optic cables
  - B. Climbing
    1. Knowledge and inspection of gear
    2. Pole climbing
    3. Hurt man rescue
  - C. Overhead construction
    1. Pole framing
    2. Rigging
    3. Cable placement
    4. Use of tools and equipment
  - D. Underground construction
    1. Excavation/Trenching

2. Cable placement
3. Pulling practices
- E. Equipment operation
  1. Bucket truck
  2. Mini excavator
  3. Place truck
  4. Capstand
  5. Reel trailer
  6. Set up/Tear down
9. Fiber Specialist Curriculum (40 hours)
  - A. Communications fiber optics basics
    1. What is fiber optics?
    2. Distribution fiber
    3. Backbone fiber
    4. Visual light
    5. Invisible light
  - B. Chelan County PUD fiber systems and components
    1. PON (Passive Optical Network)-OLT shelf, line cards, CWDM combiners and passive optical splitters
    2. Splice cases
    3. Patch panels
  - C. Cabling
    1. AC power
    2. DC power
    3. Cable management
    4. Grounding
    5. Patch cords
    6. Fiber patch panels
  - D. Fiber Optic Testing
    1. Visual fault locator
    2. Power meters
    3. Light sources-850, 1310, 1550
    4. Optic connector cleaning
    5. Fiber identifiers
  - E. Installations
    1. Fiber cabling
    2. Safety
    3. Housekeeping
  - F. Troubleshooting and Testing Basics
    1. Visual
    2. Optical
    3. Physical

## Additional Training Providers (if necessary)

[Click or tap here to enter text.](#)  
Print Name Training Provider

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Title of Training Provider

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Print Name Training Provider

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