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L&I Apprenticeship Consultant



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



Request for Approval of Proposed Standards

TO:	Washington Sta	ite Apprenticeship & Tra	ining Council			
FROM:	Douglas County	Public Utility District NO	. 1 Apprenticeship Co	ommittee		
Check th	e appropriate bo mittee	x:		□ oj	Г	
					•	
Occupa	tion(s)				SOC Code	Hours
Lineman	1				49-9051.00	6000
Wiremar	า				49-2095.00	6000
Meterma	an				49-2095.00	6000
Form	must be signe	d by Committee Chai	ir <i>and</i> Secretary o	<i>r</i> Prograr	n's Authorize	d Signer
	•	Date 1/28/25			Date 1/28/25	
Print Nam Chance	orized Signer ne: Landon	1/20/23	Print Name: Tom Goodwin		1/20/23	
Signature			Signature:	- 4	oal.	
(,			
Approved Washing	gton State Appre	nticeship & Training C	ouncil			
Signature	of the WSATC:					
Date:						

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



Journey Level Wage Rate

From which apprentices' wage rates are computed

TO:	Washington	State	Apprenticeship	&	Training	Council
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FROM: Douglas County Public Utility District NO. 1 Apprenticeship Committee

Occupation:	County(ies):	Journey Level Wage Rate:	Effective Date:
Lineman	Douglas	\$61.06	4/1/2025
Wireman	Douglas	\$61.06	4/1/2025
Meterman	Douglas	\$61.06	4/1/2025
		\$	

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

Form must be signe	d by Committee Chair <i>ar</i>	nd Secretary <i>or</i> Program	's Authorized Signer
X Chair☐ Authorized Signer	Date 1/28/25	⊠ Secretary	Date 1/28/25
Print Name: Chance Landon		Print Name: Tom Goodwin	
Signature:		Signature:	

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



Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Name		
Douglas County PUD Apprentices	ip	
Occupation		
Lineman		
Term/OJT Hours	Total RSI Hours	
6000 hours	452	
Training Provider		
AVISTA Corporation and Northwes	t Line Construction JATC	

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:
 - 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 <i>and</i> S	Secretary <i>or</i> Program's <i>i</i>	Authorized Signer
	Date	⊠ Secretary	Date
Authorized Signer	1/28/25		1/28/25
Print Name:		Print Name:	
Chance Landon		Tom Goodwin	
Signature:		Signature:	ali
Training Provider Signa	ture		
Approved By (Print Name):		Title: LED Coordinat	400
Paul Gorman		L-V Loorollicat	Oi .
Signature of the Training Pro	vider:		
Part (
Date: F&B 4, 2025			
If additional training provide	rs are needed, go to page 4		
madanona naming provinc			
SBCTC	,		
Print Name:		Title:	
Signature of the Program Ad	ministrator:		
Date:			
☐ SRCTC recommends a	nnroval	CTC recommends return to	sponsor

Program Name	Occupational Objective
Douglas County PUD Apprenticeship	Lineman

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	of study	per	year in	terms	of	(check one):
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□ Defined 12-month school year.□ 2,000 hours of on-the-job training.	
2 000 hours of on-the-job training	
= 2,000 hours or on the job training.	

⊒ 2,000 flours or on-the-job training.		
Element/Course: Year 1	Planned Hours:	64
	om 40% / Lab 40% / Online	e 20%
☑ Classroom☑ Lab☑ Online☐ Self-StudyProvided by: AVISTA Corporation		
Description of element/course:		
Year 1 Electrical Training Alliance Outside Lineman (online workbooks 1-6)		
Lesson 1-1-1: How to Study this Course and Achieve Your Personal Goals		
Lesson 1-1-2: Knowing Your Apprenticeship and Your Responsibilities		
Lesson 1-1-3: The Attributes of an IBEW/NECA Apprenticeship		
Lesson 1-1-4: Your Job and the Future It Holds for You		
Lesson 1-1-5: Safety Awareness-On the Job		
Lesson 1-1-6: Identify Some Basic Tools of the Trade		
Lesson 1-1-7: Use and Care of Hand Tools		
Lesson 1-1-8: Introduction to OSHA		
Lesson 1-1-9: Hazard Awareness		
Lesson 1-1-10: Energized and Non-Energized Parts		
Lesson 1-1-11: Climbing Equipment Inspection and Care		
Lesson 1-1-12: Fall Protection		
Lesson 1-1-13: Climber Cutouts		
Lesson 1-1-14: Climbing Poles		
Lesson 1-1-15: Pole-Top Rescue		
Lesson 1-1-16: Bucket Rescue		

Workbook 1 Quiz

Lesson 1-2-1: Sexual Harassment

Lesson 1-2-2: Marketing 1

Lesson 1-2-3 The IBEW and its History

Lesson 1-2-4: NECA's Structure and Heritage

Lesson 1-2-5: Shock, Arc and Blast

Lesson 1-2-6: Rubber Gloves and Sleeves, Care and Use

Lesson 1-2-7: Protective Line Devices, Care and Use

Lesson 1-2-8: Working in Confined Spaces/Vault Rescue

Lesson 1-2-9: Safety Meetings, Job Briefings (Tail-Board) Discussions

Lesson 1-2-10: First Aid, Safety and Health

Lesson 1-2-11: Hand Signals

Lesson 1-2-12: Powered Equipment Safety-Compressors and Portable Generators

Lesson 1-2-13: Wood Poles-Inspection and Maintenance

Lesson 1-2-14: Setting Poles and Setting Poles Near or Around Energized Circuits

Lesson 1-2-15: Digging Hole and Trenches

Lesson 1-2-16: Avoiding the Hazards of Drug Abuse

Workbook 2 Quiz

Lesson 1-3-1: Working with Prefixes and Powers of 10

Lesson 1-3-2: The Customary and Metric Systems of Measurement

Lesson 1-3-3: The Circle

Lesson 1-3-4: Area and Volume

Lesson 1-3-5: Measuring and Drawing Angles

Lesson 1-3-6: Right Triangles

Lesson 1-3-7: Blueprint Lines

Lesson 1-3-8: Introduction to Blueprints and Specifications

Lesson 1-3-9: Blueprint Fundamentals

Lesson 1-3-10: Symbols, Conventions and Abbreviations

Lesson 1-3-11: Electrical Drawings and Diagrams

Lesson 1-3-12: Civil Drawings

Lesson 1-3-13: Reading Maps, Plans and Profiles

Lesson 1-3-14: Staking Sheets and Stakes

Lesson 1-3-15: Introduction to Measuring and Leveling Devices

Workbook 3 Quiz

Mid-term Exam

Lesson 1-4-1: How to Solve Basic Algebraic Equations

Lesson 1-4-2: The Electrical Circuit and Ohm's Law

Lesson 1-4-3: Solving Power Calculations

Lesson 1-4-4: Use and Operation of Blocks

Lesson 1-4-5: Slings and Chokers

Lesson 1-4-6: Rigging Tools and Rigging Equipment

Lesson 1-4-7: Guy Types, Guy Strength and Sizes

Lesson 1-4-8: Guy Installation

Lesson 1-4-9: Anchors

Lesson 1-4-10: Line Conductors

Lesson 1-4-11: Crossarms and Attachments

Lesson 1-4-12: Insulators

Lesson 1-4-13: Resistance in Series Circuits

Lesson 1-4-14: Current in Series Circuits

Lesson 1-4-15: Voltage in Series Circuits

Lesson 1-4-16: Power in Series Circuits

Workbook 4 Quiz

Lesson 1-5-1: Mathematics for Parallel Circuits

Lesson 1-5-2: How Voltage Functions in a DC Parallel Circuit

Lesson 1-5-3: Resistance in a DC Parallel Circuit

Lesson 1-5-4: How Current Reacts in a DC Parallel Circuit

Lesson 1-5-5: How to Calculate Power in a DC Parallel Circuit

Lesson 1-5-6: The Principles of Magnetism

Lesson 1-5-7: Magnetic Induction

Lesson 1-5-8: Working with Ratios and Proportion

Lesson 1-5-9: The Electric System

Lesson 1-5-10: Wire Sizes, Types, and Characteristics

Lesson 1-5-11: Stringing Wire

Lesson 1-5-12: Sagging and Tying in Conductors

Lesson 1-5-13: Connecting an Overhead Service

Lesson 1-5-14: Insulate and Isolate ***

Lesson 1-5-15: Insulated Platforms and the Second Point of Contact ***

Lesson 1-5-16: Good Housekeeping

Workbook 5 Quiz

Lesson 1-6-1: Understanding Resistance in DC Combination Circuits

Lesson 1-6-2: How Current Reacts in Combination Circuits

Lesson 1-6-3: How Voltage Functions in DC Combination Circuits

Lesson 1-6-4: How to Calculate Power in DC Combination Circuits

Lesson 1-6-5: Two-Way Radios – Proper Use Procedures

Lesson 1-6-6: Underground Systems

Lesson 1-6-7: Excavation and Shoring

Lesson 1-6-8: Laying Conduit

Lesson 1-6-9: Manholes and Handholes

Lesson 1-6-10: Cable Types

Lesson 1-6-11: Pulling Cables

Lesson 1-6-12: Planning and Design for Underground Systems

Lesson 1-6-13: Baskets, Aerial Lifts, and Platforms ***

Lesson 1-6-14: Grounding and Protective Grounds

Lesson 1-6-15: Taking A Line Out of Service

Lesson 1-6-16: Lockout/Tagout Line Applications

Workbook 6 Quiz

Final Exam

Element/Course: Year 2	Planned Hours: 64
Mode of Instruction (check all that apply)	

 □ Online ☐ Self-Study Classroom 40% / Lab 40% / Online 20% Provided by: AVISTA Corporation Year 2 Electrical Training Alliance Outside Lineman (online workbooks 1-6) Lesson 2-1-1: This is a National Program Lesson 2-1-2: Becoming Familiar with the IBEW Constitution Lesson 2-1-3: Parliamentary Procedure and How It Works Lesson 2-1-4: Understanding Local Union Bylaws Lesson 2-1-5: Professional Personal Conduct Lesson 2-1-6: Absenteeism Lesson 2-1-7: Working Outdoors Lesson 2-1-8: Emergency Response Lesson 2-1-9: Introduction to 1910.269, Electric Power Generation, Transmission, and Distribution Lesson 2-1-10: Reviewing the Applications of DC Theory Lesson 2-1-11: Comparing Direct Current to Alternating Current Lesson 2-1-12: Fundamentals of Alternating Current Lesson 2-1-13: An Introduction to 3-Phase Systems Lesson 2-1-14: Understanding How the DC Generator Works Lesson 2-1-15: Understanding the Design and Function of AC Generators Workbook 1 Quiz Lesson 2-2-1: Introduction to Test Instruments Lesson 2-2-2: General Use Test Instruments Lesson 2-2-3: Introduction to Transformers Lesson 2-2-4: Transformer Construction Lesson 2-2-5: Transformer Information Characteristics Lesson 2-2-6: Transformer Operation Lesson 2-2-7: Transformer Polarity/Connections Lesson 2-2-8: Tap Changers and Tap Changer Operation Lesson 2-2-9: Transformer: Completely Self-Protected Lesson 2-2-10: Installing Transformers Lesson 2-2-11: Single-Phase Transformer Connections Lesson 2-2-12: Transformer Protection Lesson 2-2-13: Conducting Transformer Load Checks

Lesson 2-2-14: Specific Hazards Working with Transformers

Lesson 2-2-15: Vectors

Workbook 2 Quiz

Lesson 2-3-1: The Customary and Metric Systems of Measurement

Lesson 2-3-2: The Circle

Lesson 2-3-3: Area and Volume

Lesson 2-3-4: Measuring and Drawing Angles

Lesson 2-3-5: Right Triangles

Lesson 2-3-6: Blueprint Lines

Lesson 2-3-7: Introduction to Blueprints and Specifications

Lesson 2-3-8: Blueprint Fundamentals

Lesson 2-3-9: Symbols, Conventions and Abbreviations

Lesson 2-3-10: Electrical Drawings and Diagrams

Lesson 2-3-11: Civil Drawings

Lesson 2-3-12: Reading Maps, Plans and Profiles

Lesson 2-3-13: Staking Sheets and Stakes

Lesson 2-3-14: Introduction to Measuring and Leveling Devices

Workbook 3 Quiz

Mid-term Exam

Lesson 2-4-1: Introduction to Inductance

Lesson 2-4-2: Voltage Drop

Lesson 2-4-3: Metering

Lesson 2-4-4: Overvoltage Protection

Lesson 2-4-5: Fault Indicator

Lesson 2-4-6: Tower Footings

Lesson 2-4-7: Tower Erection ***

Lesson 2-4-8: Joining High-Line Conductors

Lesson 2-4-9: Sagging Conductors

Lesson 2-4-10: Dampers, Hold Down Weights, and Armor Rods

Lesson 2-4-11: Phasing and Tying in Circuits

Lesson 2-4-12: Overload Capabilities of Electrical Equipment

Lesson 2-4-13: Phase Sequence

Lesson 2-4-14: Back-feed

Lesson 2-4-15: Locating Faults and Restoring Service

Workbook 4 Quiz

Lesson 2-5-1: Introduction to Medium Voltage Cable Power Cable

Lesson 2-5-2: Cable Splicing I — Safety

Lesson 2-5-3: Cable Splicing II — Material and Tools

Lesson 2-5-4: Cable Splicing III — Cable Preparation

Lesson 2-5-5: Cable Splicing IV — Terminations

Lesson 2-5-6: Cable Splicing V — Splicing

Lesson 2-5-7: Cable Splicing VI — Elbows (Separable Connectors)

Lesson 2-5-8: Cable Splicing VII — Grounding Cables ***

Lesson 2-5-9: Cable Splicing VIII — Pulling Cables

Lesson 2-5-10: Test Instruments — How to Use a Megohmmeter

Lesson 2-5-11: Cable Splicing IX — Insulation Testing

Lesson 2-5-12: Cable Splicing X — Introduction to Cable Fault Locating

Lesson 2-5-13: Cable Splicing XI — Underground Troubleshooting

Lesson 2-5-14: Confined Spaces

Lesson 2-5-15: Cable Splicing XII — Manufacturers' Kits

Workbook 5 Quiz

Lesson 2-6-1: Mobile Cranes

Lesson 2-6-2: Boom Capacities and Load Charts

Lesson 2-6-3: Practical Applications — Rigging — Vectors

Lesson 2-6-4: Lifting and Digging Operations

Lesson 2-6-5: Traffic Signal Industry Overview

Lesson 2-6-6: Flagging, Signs, and Barricades — Part I

Lesson 2-6-7: Flagging, Signs, and Barricades — Part II

Lesson 2-6-8: Flagging, Signs, and Barricades — Part III

Lesson 2-6-9: Flagging, Signs, and Barricades — Part IV

Lesson 2-6-10: Introduction to the Manual on Uniform Traffic Control Devices

Lesson 2-6-11: Traffic Signal Hardware and Equipment

Lesson 2-6-12: Underground Installations — Caissons

Lesson 2-6-13: Introduction to Basic Signal Blueprints

Lesson 2-6-14: Introduction to Traffic Signal Cabinets and Equipment

Lesson 2-6-15: Phasing and Traffic Flow

Workbook 6 Quiz

Final Exam

Element/Course: Planned Hours: 104 Year 3 Mode of Instruction (check all that apply) Classroom 40% / Lab 40% / Online 20% ☐ Self-Study ⊠ Lab Provided by: AVISTA Corporation Description of element/course: Year 3 Electrical Training Alliance Outside Lineman (online workbooks 1-6) Lesson 3-1-1: Almost a Journeyman Lesson 3-1-2: Pride in Your Industry Lesson 3-1-3: An Introduction to the COMET Program Lesson 3-1-4: Productivity Lesson 3-1-5: Distribution Circuits Lesson 3-1-6: Review of Alternating Current Lesson 3-1-7: Alternating Current Theory: Terms and Definitions Lesson 3-1-8: Inductance Lesson 3-1-9: Capacitors Lesson 3-1-10: Distribution Capacitors Lesson 3-1-11: Transformers—3-Phase Voltages Lesson 3-1-12: Transformers—3-Phase Connections Lesson 3-1-13: Transformers—Single-Phase Connections Lesson 3-1-14: Transformers—3-Phase Connections II Lesson 3-1-15: Troubleshooting 3-phase Banks Workbook 1 Quiz Lesson 3-2-1: Labor-Management Relations/LMCCs Lesson 3-2-2: PPG—Body Currents *** Lesson 3-2-3: PPG—Basic Electric Circuits *** Lesson 3-2-4: PPG—Grounding History *** Lesson 3-2-5: PPG—Equipotential Zone Grounding ***

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Lesson 3-2-6: PPG—Selection of Equipment ***
Lesson 3-2-7: PPG—Installation of Grounds ***
Lesson 3-2-8: PPG—Step and Touch Potential ***
Lesson 3-2-9: PPG—Induced Voltage and Multiple Grounds ***
Lesson 3-2-10: PPG—Truck Grounding ***
Lesson 3-2-11: PPG—Underground Distribution Grounding ***
Lesson 3-2-12: PPG—Grounding in Substations ***
Lesson 3-2-13: PPG—During Construction Activities ***
Lesson 3-2-14: Testing Ground (Earth) Resistance
Lesson 3-2-15: Lightning Protection
Workbook 2 Quiz
Lesson 3-3-1: Applying Rubber Protective Devices ***
Lesson 3-3-2: Live-Line Tools—Introduction, Identification, and Care ***
Lesson 3-3-3: Live-Line Tools—Using Hot Sticks ***
Lesson 3-3-4: Live-Line Tools—Maintenance with Hot Sticks III ***
Lesson 3-3-5: Live-Line Tools—Maintenance with Hot Sticks IV ***
Lesson 3-3-6: Live-Line Tools—Maintenance with Hot Sticks V ***
Lesson 3-3-7: Live-Line Tools—Maintenance with Hot Sticks VI ***
Lesson 3-3-8: Live-Line Tools—Maintenance with Hot Sticks VII ***
Lesson 3-3-9: Live-Line Work Practices—138-kV Insulator and Crossarm Changes ***
Lesson 3-3-10: Live-Line Work Practices—Insulator and Crossarm Changes ***
Lesson 3-3-11: Live-Line Work Practices—Tower Insulator Changes ***
Lesson 3-3-12: Live-Line Work Practices—Helicopter Timber Changes ***
Lesson 3-3-13: Live-Line Work Practices—Special Practices ***
Lesson 3-3-14: Primary Metering
Lesson 3-3-15: Single-Phase Revenue Metering
Workbook 3 Quiz
Mid-term Exam
Lesson 3-4-1: Introduction to Substations
Lesson 3-4-2: Substations—Safety Procedures
Lesson 3-4-3: Substation Construction—Safety and First Aid
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Lesson 3-4-4: Substation Construction—Federal Regulations

Lesson 3-4-5: Substation Construction—Print Reading

Lesson 3-4-6: Substation Construction—Making Connections

Lesson 3-4-7: Substation Construction—Function and Types of Stations

Lesson 3-4-8: Substation Construction—Spill Prevention, Containment, and Countermeasure Plans

Lesson 3-4-9: Substation Construction—Foundations

Lesson 3-4-10: Substation Construction—Installing Grout

Lesson 3-4-11: Substation Construction—Underground Power Cables

Lesson 3-4-12: Substation Construction—Grounding/Ground Grids

Lesson 3-4-13: Substation Construction—Steel Superstructure Assembly

Lesson 3-4-14: Substation Construction—Installing Insulators

Lesson 3-4-15: Substation Construction—Installing Control Cables and Devices

Workbook 4 Quiz

Lesson 3-5-1: Primary Fusing/Fuse Principles

Lesson 3-5-2: Reclosers and Sectionalizers

Lesson 3-5-3: Substations—Equipment Identification

Lesson 3-5-4: Substations—Oil Circuit Breakers

Lesson 3-5-5: Substations—Batteries

Lesson 3-5-6: Substations—Oil Care and Filtering

Lesson 3-5-7: Substation—Air Switches

Lesson 3-5-8: Substations—Substation Control Equipment

Lesson 3-5-9: Fault Current

Lesson 3-5-10: Testing For Line Faults

Lesson 3-5-11: Voltage Regulators

Lesson 3-5-12: Step Regulators and Tap Changing

Lesson 3-5-13: Capacitors and Capacitor Switching

Lesson 3-5-14: Power Factor

Lesson 3-5-15: Power Harmonics

Workbook 5 Quiz

Lesson 3-6-1: The Economics of Unemployment

Lesson 3-6-2: Keys to Success—Motivation and Leadership

Lesson 3-6-3: The National Electrical Benefit Fund
Lesson 3-6-4: Introduction to Fiber Optics
Lesson 3-6-5: Fiber-Optic Network Installation
Lesson 3-6-6: Fiber-Optic Network Design
Lesson 3-6-7: Fiber-Optic Cable
Lesson 3-6-8: Alternative Energy Source—Wind
Lesson 3-6-9: Alternative Energy Source—Photovoltaics
Lesson 3-6-10: Extra High Voltage Lines
Lesson 3-6-11: After Apprenticeship
Lesson 3-6-12: Foremanship
Lesson 3-6-13: Soon to Be an Instructor
Lesson 3-6-14: Your Career—Journeyman Responsibilities
Workbook 6 Quiz
Final Exam
Element/Course: 1 st year Lineman Apprentice Climbing and Rigging Planned Hours: 100
Mode of Instruction (check all that apply)
(Jassroom 15% / Lan 75% / Online 11%
☐ Classroom ☐ Classroom 15% / Lab / 5% / Online 10%
(Jassroom 15% / Lan 75% / Online 11%
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study Provided by: Northwest Line Construction JATC
☑ Classroom ☒ Lab ☐ Online ☒ Self-Study Classroom 15% / Lab 75% / Online 10% Provided by: Northwest Line Construction JATC Description of element/course:
☑ Classroom ☑ Lab ☐ Online ☑ Self-Study Provided by: Northwest Line Construction JATC Description of element/course: Climbing
☑ Classroom ☑ Lab ☐ Online ☑ Self-Study Provided by: Northwest Line Construction JATC Description of element/course: Climbing Rigging
☑ Classroom ☑ Lab ☐ Online ☑ Self-Study Provided by: Northwest Line Construction JATC Description of element/course: Climbing Rigging Vectoring
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□ Classroom □ Lab □ Online □ Self-Study Provided by: Northwest Line Construction JATC Description of element/course: Climbing Rigging Vectoring Knots Basic Electrical Theory Element/Course: 2 nd year Lineman Apprentice: Transformers / Hotsticking Planned Hours: 80 Mode of Instruction (check all that apply) □ Classroom □ Lab □ Online □ Self-Study
☑ Classroom ☑ Lab ☐ Online ☑ Self-Study Provided by: Northwest Line Construction JATC Description of element/course: Climbing Rigging Vectoring Knots Basic Electrical Theory Element/Course: 2nd year Lineman Apprentice: Transformers / Hotsticking Planned Hours: 80 Mode of Instruction (check all that apply) Classroom ☑ Classroom Isometical Topical To
□ Classroom □ Lab □ Online □ Self-Study Provided by: Northwest Line Construction JATC □ Description of element/course: Climbing Rigging Vectoring Knots □ Basic Electrical Theory □ Element/Course: 2 nd year Lineman Apprentice: Transformers / Hotsticking □ Planned Hours: 80 □ Mode of Instruction (check all that apply) □ Classroom □ Lab □ Online □ Self-Study □ Provided by: AVISTA Corporation
☑ Classroom ☑ Lab ☐ Online ☑ Self-Study Provided by: Northwest Line Construction JATC Description of element/course: Climbing Rigging Vectoring Knots Basic Electrical Theory Element/Course: 2nd year Lineman Apprentice: Transformers / Hotsticking Planned Hours: 80 Mode of Instruction (check all that apply) Classroom ☑ Classroom Isometical Topical To
☑ Classroom ☑ Lab ☐ Online ☑ Self-Study Provided by: Northwest Line Construction JATC Description of element/course: Climbing Rigging Vectoring Knots Basic Electrical Theory Element/Course: 2nd year Lineman Apprentice: Transformers / Hotsticking Planned Hours: 80 Mode of Instruction (check all that apply) Classroom ☑ Classroom ☑ Classroom Isomorphical that apply (Lab 75% / Online 10% Provided by: AVISTA Corporation) Description of element/course: Transformer Theory

Hot Sticks	
Element/Course: 3 rd year Lineman Apprentice	Planned Hours: 40
Mode of Instruction (check all that apply)	Classroom 15% / Lab 75% / Online 10%
□ Classroom □ Lab □ Online □ Self-Study	Classicom 10707 Eas 10707 Chimic 1070
Provided by: AVISTA Corporation	
Description of element/course:	
Energized Transmission Work	
Advanced Electrical Theory	
Mock Journeyman Exam	

Additional Training Providers (if necessary)

Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Terry Lowen, Director	Northwest Line Construction JATC
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
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Title of Training Provider	Organization of Training Provider
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Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.

Title of Training Provider	Organization of Training Provider

RECEIVED 2/11/2025 SNYS
L&I Apprenticeship Consultant

Teri Gardner 8-14-25 L&I Admin

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



Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Name			
Douglas County Public Utility District No. 1 Apprenticeship Committee			
Occupation			
Wireman			
Term/OJT Hours	Total RSI Hours		
6000 hours, 432			
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				
	Date	Secretary Secreta	Date	
Authorized Signer	1/28/25		1/28/25	
Print Name:		Print Name:		
Chance Landon		Tom Goodwin		
Signature:		Signature:		
Training Provider Signat	ture			
Approved By (Print Name):		Title:		
Natá Pulver		Chelan PUD JATC Traini	ng Director/Coordinator	
Signature of the Training Prov	rider:		v	
Date: (2-10-25				
If additional training providers are needed, go to page 4.				
Print Name:		Title:		
Signature of the Program Adm	ninistrator:			
Date:				
☐ SBCTC recommends ap	proval SBC	CTC recommends return to	sponsor	

Program Name	Occupational Objective
Douglas County Public Utility District No. 1	Wireman
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.

"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) ☐ Classroom ☐ Lab ☐ Online ☐ Self-Study ☐ Classroom ☐ Self-Study
Provided by: Chelan County Public Utility District No. 1 Apprenticeship Committee
Description of element/course: Year 1 Electrical Training Alliance Substation Wireman (online workbooks 1-6) & Delmar's Standard Textbook of Electricity
Lesson 1-1-1: How to Study this Course and Achieve Your Personal Goals
Lesson 1-1-2: Knowing Your Apprenticeship and Your Responsibilities
Lesson 1-1-3: The Attributes of an IBEW/NECA Apprenticeship
Lesson 1-1-4: Your Job and the Future It Holds for You
Lesson 1-1-5: Sexual Harassment
Lesson 1-1-6: The IBEW and Its History
Lesson 1-1-7: NECA's Structure and Heritage
Lesson 1-1-8: Avoiding the Hazards of Drug Abuse
Lesson 1-1-9: This is a National Program
Lesson 1-1-10: Becoming Familiar with the IBEW Constitution
Lesson 1-1-11: Professional Personal Conduct
Lesson 1-1-12: Absenteeism
Workbook 1 Quiz
Lesson 1-2-1: Math Basics with Whole Numbers
Lesson 1-2-2: Fractions
Lesson 1-2-3 Decimals
Lesson 1.2.4: Percentages

Lesson 1-2-5: How to Solve Basic Algebraic Equations

Lesson 1-2-6: Working with Ratios and Proportion

Lesson 1-2-7: Working with Prefixes and Powers of 10

Lesson 1-2-8: The Customary and Metric Systems of Measurement

Lesson 1-2-9: The Circle

Lesson 1-2-10: Area and Volume

Lesson 1-2-11: Current, Voltage and Resistance in a Circuit

Lesson 1-2-12: The Electrical Circuit and Ohm's Law

Lesson 1-2-13: Power in a Circuit

Lesson 1-2-14: What is Electricity

Workbook 2 Quiz

Lesson 1-3-1: Electrical Energy Sources

Lesson 1-3-2: Electrical Switches

Lesson 1-3-3: Conductors, Conductor Resistance and Wattage Loss

Lesson 1-3-4: Introduction to Electrical Devices

Lesson 1-3-5: The Series Circuit

Lesson 1-3-6: Understanding and Calculating Resistance in DC Series DC Circuits

Lesson 1-3-7: How Current Reacts in DC Series Circuits

Lesson 1-3-8: Voltage in Series Circuits

Lesson 1-3-9: How to Calculate Power in DC Series Circuits

Lesson 1-3-10: How Current Reacts in a DC Parallel Circuit

Lesson 1-3-11: Understanding Resistance in DC Parallel Circuits

Lesson 1-3-12: How Voltage Functions in a DC Parallel Circuit

Lesson 1-3-13: How to Calculate Power in a DC Parallel Circuit

Lesson 1-3-14: The Principles of Magnetism

Workbook 3 Quiz

Midterm Exam

Lesson 1-4-1: Introduction to OSHA

Lesson 1-4-2: Responsibility for Safety

Lesson 1-4-3: Personal Protective Equipment

Lesson 1-4-4: Electrical Awareness

Lesson 1-4-5: Energized and Non-Energized Parks

Lesson 1-4-6: Substation Construction-Safety and First Aid

Lesson 1-4-7: Live-Line Tools-Introduction, Identification and Care

Lesson 1-4-8: Fall Protection

Lesson 1-4-9: Baskets, Aerial Lifts and Platforms

Lesson 1-4-10: Substation Structure and Rescue

Lesson 1-4-11: Bucket Rescue

Lesson 1-4-12: Personal Protective Grounding-Grounding in Substations

Lesson 1-4-13: Grounding and Protective Grounds

Lesson 1-4-14: Working Outdoors

Workbook 4 Quiz

Lesson 1-5-1: Identify Some Basic Tools of the Trade

Lesson 1-5-2: Use and Care of Hand Tools

Lesson 1-5-3: Protective Line Devices, Care and Use

Lesson 1-5-4: Good Housekeeping

Lesson 1-5-5: Powered Equipment Safety-Compressors and Portable Generators

Lesson 1-5-6: Powered Equipment Safety-Underground

Lesson 1-5-7: Digging Holes and Trenches

Lesson 1-5-8: Ladders/Step Bolts

Lesson 1-5-9: Ropes, Knots, Hitches and Splices

Lesson 1-5-10: Use and Operation of Blocks

Lesson 1-5-11: Slings and Chokers

Lesson 1-5-12: Rigging Tools and Rigging Equipment

Lesson 1-5-13: Powered Equipment Safety-Digger Derricks

Lesson 1-5-14: Hand Signals

Workbook 5 Quiz

Lesson 1-6-1: The Electric System

Lesson 1-6-2: Introduction to Substations

Lesson 1-6-3: Substation Construction-Foundations

Lesson 1-6-4: Working in Excavations and Trenches

Lesson 1-6-5: Excavating the Trench

Lesson 1-6-6: Laying Conduit/Building Duct Banks

Lesson 1-6-7: Manholes and Handholes

Lesson 1-6-8: Trench Encasements, Backfill and Compaction

Lesson 1-6-9: Cable Types

Lesson 1-6-10: Substation Construction-Underground Power Cables

Lesson 1-6-11: Pulling Cables

Lesson 1-6-12: Installing Cable in an Underground Vault/Manhole

Lesson 1-6-13: Substation Construction-Ground Grids

Lesson 1-6-14: Exothermic Welding

Workbook 6 Quiz

Final Exam

Element/Course: Year 2 Planned Hours: 144

Mode of Instruction (check all that apply)

Classroom 50% / Lab 40% / Online 10%

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

Description of element/course:

Year 2 Electrical Training Alliance Substation Wireman (online workbooks 1-6) & Delmar's Standard Textbook of Electricity

Lesson 2-1-1: Symbols, Conventions and Abbreviations

Lesson 2-1-2: Scaling and Dimensioning Drawings

Lesson 2-1-3 Single-Line Drawings

Lesson 2-1-4: Schematic Diagrams

Lesson 2-1-5: Electrical Drawings and Diagrams

Lesson 2-1-6: Introduction to Blueprints and Specifications

Lesson 2-1-7: Civil Drawings

Lesson 2-1-8: Steel Erection Drawings

Lesson 2-1-9: Introduction to Measuring and Leveling Devices

Lesson 2-1-10: Measuring and Drawing Angles

Lesson 2-1-11: Right Triangles

Workbook 1 Quiz

Lesson 2-2-1: Site Layout and Preparation

Lesson 2-2-2: Equipment Foundations

Lesson 2-2-3 Substation Construction-Spill Prevention, Containment and Countermeasure Plans

Lesson 2-2-4: Substation Construction-Grounding/Ground Grids

Lesson 2-2-5: Type of Ground Connectors

Lesson 2-2-6: Boom Capacities and Load Charts

Lesson 2-2-7: Insulated Platforms and the Second Point of Contact

Lesson 2-2-8: Superstructure Assembly and Erection Part 1

Lesson 2-2-9: Superstructure Assembly and Erection Part 2

Lesson 2-2-10: Insulators

Lesson 2-2-11: Bus/Jumpers-Types

Lesson 2-2-12: Bus/Jumpers-Proper Handling, Installations

Lesson 2-2-11: Wire Bus Type

Workbook 2 Quiz

Lesson 2-3-1: Substation Equipment Overview

Lesson 2-3-2: Substations-Equipment Identification

Lesson 2-3-3: Power Transformers

Lesson 2-3-4: Substation-Air Switches

Lesson 2-3-5: Voltage Regulators

Lesson 2-3-6: Capacitors

Lesson 2-3-7: Reactors

Lesson 2-3-8: Rectifiers

Lesson 2-3-9: Protective Equipment

Lesson 2-3-10: Lightning Protection

Workbook 3 Quiz

Midterm Exam

Lesson 2-4-1: Reviewing the Applications of DC Theory

Lesson 2-4-2: Understanding Resistance in DC Combination Circuits

Lesson 2-4-3: How Current Reacts in Combination Circuits

Lesson 2-4-4: How Voltage Functions in DC Combination Circuits

Lesson 2-4-5: How to Calculate Power in DC Combination Circuits

Lesson 2-4-6: Comparing Direct Current to Alternating Current

Lesson 2-4-7: Fundamentals of AC

Lesson 2-4-8: Intro to 3 Phase Systems

Lesson 2-4-9: Understanding How the DC Generator Works

Lesson 2-4-10: Understanding the Design and Function of AC Generators

Lesson 2-4-11: Intro to Inductance

Lesson 2-4-12: Voltage Drop

Workbook 4 Quiz

Lesson 2-5-1: Safety Awareness-On the Job

Lesson 2-5-2: Lockout/Tagout-Substation Applications

Lesson 2-5-3: Introduction to Transformers

Lesson 2-5-4: Transformer Construction

Lesson 2-5-5: Transformer Information Characteristics

Lesson 2-5-6: Vectors

Lesson 2-5-7: Transformer Operation

Lesson 2-5-8: Transformer Polarity/Connections

Lesson 2-5-9: Tap Changers and Tap Changer Operation

Lesson 2-5-10: Installing Transformers

Lesson 2-5-11: Single-Phase Transformer Connections

Lesson 2-5-12: Transformer Protection Lesson 2-5-13: Introduction to Test Instruments Lesson 2-5-14: General Use Test Instruments Workbook 5 Quiz Lesson 2-6-1: Conducting Transformer Load Checks Lesson 2-6-2: Transformers-3 Phase Connections Lesson 2-6-3: Transformer-3 Phase Voltages Lesson 2-6-4: Specific Hazards Working with Transformers Lesson 2-6-5: Ferroresonance Lesson 2-6-6: PPG-Grounding in Substations Lesson 2-6-7: PPG-Step and Touch Potential Lesson 2-6-8: PPG-Equipotential Zone Grounding Lesson 2-6-9: Testing Ground (Earth) Resistance Lesson 2-6-10: Substation Inspection Lesson 2-6-11: Substation CT's, VT's and PT's Lesson 2-6-12: Power Factor Lesson 2-6-13: Power Harmonics Workbook 6 Quiz

Element/Course: Year 3		Planned Hours: 144	
Mode of Instruction (check all that apply)	<i>'</i>	Classroom 50% / Lab 40% / Online 10%	
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lextbook of Electricity			
Lesson 3-1-1: Almost a Journeyman			
Lesson 3-1-2: Pride in Your Industry			
Lesson 3-1-3 Understanding	Local Union Bylaws		
Lesson 3-1-4: Parliamentary Procedure and How it Works			
Lesson 3-1-5: An Introduction to the COMET Program			
Provided by: Chelan County For Description of element/course: Year 3 Electrical Training Allia Textbook of Electricity Lesson 3-1-1: Almost a Journ Lesson 3-1-2: Pride in Your In Lesson 3-1-3 Understanding In Lesson 3-1-4: Parliamentary In Lesson	Public Utility District No 1 ance Substation Wireman neyman ndustry Local Union Bylaws Procedure and How it Wo	o (online workbooks 1-6) & Delmar's Standard	

Final Exam

Lesson 3-1-6: The National Electrical Benefit Fund

Lesson 3-1-7: Productivity

Lesson 3-1-8: Hazards of Cell Phone Use in the Workplace

Lesson 3-1-9: Labor-Management Relations/LMCC's

Lesson 3-1-10: The Economics of Unemployment

Lesson 3-1-11: Keys to Success-Motivation and Leadership

Lesson 3-1-12: After Apprenticeship

Lesson 3-1-13: Foremanship

Lesson 3-1-14: Soon to Be an Instructor

Lesson 3-1-15: Your Career-Journeyman Responsibilities

Workbook 1 Quiz

Lesson 3-2-1: OSHA 1910.269(u)

Lesson 3-2-2: Arc Flash Compliance

Lesson 3-2-3 Temporary Grounding for Substations

Lesson 3-2-4: PPG-Inducted Voltage and Multiple Grounds

Lesson 3-2-5: Selection of Equipment and Installation of Grounds

Lesson 3-2-6: Vehicle Grounding

Lesson 3-2-7: Applying Rubber Protective Devices

Lesson 3-2-8: PPG-Body Currents

Lesson 3-2-9: Live-Line Tools-Using Hot Sticks

Lesson 3-2-10: Power Quality

Lesson 3-2-11: Substation Voltages

Lesson 3-2-12: Distribution Circuits Overview

Lesson 3-2-13: Substations-Operation and Maintenance

Lesson 3-2-14: Safety in Substations and Switchyards

Workbook 2 Quiz

Lesson 3-3-1: Cable Splicing-Safety

Lesson 3-3-2: Cable Splicing-Material and Tools

Lesson 3-3-3: Cable Splicing-Cable Preparation

Lesson 3-3-4: Cable Splicing-Terminations

Lesson 3-3-5: Cable Splicing-Splicing

Lesson 3-3-6: Cable Splicing-Elbows (Separable Connectors)

Lesson 3-3-7: Cable Splicing-Grounding Cables

Lesson 3-3-8: Cable Splicing-Insulation Testing

Lesson 3-3-9: Cable Splicing-Introduction to Cable Fault Locating

Lesson 3-3-10: Cable Splicing-Underground Troubleshooting

Lesson 3-3-11: Cable Splicing-Manufacturer's Kits

Lesson 3-3-12: Introduction to Fiber Optics

Lesson 3-3-13: Optical Fiber

Lesson 3-3-14: Connectors and Splices

Workbook 3 Quiz

Midterm Exam

Lesson 3-4-1: Power Transformer Principles

Lesson 3-4-2: Power Transformers-Inspection and Tests

Lesson 3-4-3: Power Transformers-Tap Changers and Turns Ratio Testing

Lesson 3-4-4: Transformer Oil Quality/Oil Filtration

Lesson 3-4-5: DC High Potential Testing (Hi-Pot)

Lesson 3-4-6: Insulation Power Factor Test

Lesson 3-4-7: Insulation Resistance Test

Lesson 3-4-8: Power Transformer Temperature Indicator Testing

Lesson 3-4-9: Power Transformer Pressure Relay Testing

Lesson 3-4-10: SF6 Gas-Properties

Lesson 3-4-11: SF6 Gas-Handling

Lesson 3-4-12: Vacuum Bottle Hi-Pot Testing

Lesson 3-4-13: Oil Containment

Lesson 3-4-14-Temporary Substations-Mobile Units

Workbook 4 Quiz

Lesson 3-5-1: Circuit Breaker Operation

Lesson 3-5-2: Circuit Breaker Maintenance

Lesson 3-5-3: New Circuit Breaker Inspections and Tests

Lesson 3-5-4: Circuit Breaker Time-Travel Characteristics

Lesson 3-5-5: Circuit Breaker Time-Travel Testing and Analysis

Lesson 3-5-6: Contact Resistance Testing

Lesson 3-5-7: Capacitors and Reactors

Lesson 3-5-8: Capacitor Bank Maintenance and Testing

Lesson 3-5-9: Voltage Regulators

Lesson 3-5-10: Bus Configurations

Lesson 3-5-11: Bus Connections

Lesson 3-5-12: Bus Welding

Lesson 3-5-13: Infrared Thermography

Lesson 3-5-14: Raptor Protection and Animal Guards

Lesson 3-5-15: Alternative Energy Sources

Workbook 5 Quiz

Lesson 3-6-1: Substation Control Rooms

Lesson 3-6-2: Protective Relays

Lesson 3-6-3: Protective Relays and Transmission Systems

Lesson 3-6-4: Control Equipment

Lesson 3-6-5: Power Line Carrier

Lesson 3-6-6: Supervisory Control and Data Acquisition

Lesson 3-6-7: Short Circuit Analysis-Testing for Distribution Line Faults

Lesson 3-6-8: Metering

Lesson 3-6-9: AC/DC Generators

Lesson 3-6-10: UPS-Uninterruptible Power Supplies

Lesson 3-6-11: Substations-Batteries

Lesson 3-6-12: Substation Battery Testing

Lesson 3-6-13: Substation Battery Chargers

Lesson 3-6-14: Substation, Cell and Charger Replacement

Lesson 3-6-15: Commissioning a Substation

Workbook 6 Quiz

Final Exam

Additional Training Providers (if necessary)

Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
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Title of Training Provider	Organization of Training Provider
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Title of Training Provider	Organization of Training Provider

RECEIVED 2/11/2025 SNYS
L&I Apprenticeship Consultant

Teri Gardner 8-14-2:

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



Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Name			
Douglas County Public Utility District No. 1 Apprenticeship Committee			
Occupation			
Meterman			
Term/OJT Hours	Total RSI Hours		
6000 hours/36 months	432		
Training Provider			
National Metering and Technical Services, I	_LC		

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.
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- 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 S	secretary <i>or</i> Program's <i>I</i>	Authorized Signer	
⊠ Chair	Date	⊠ Secretary	Date	
☐ Authorized Signer				
Print Name:		Print Name:		
Chance Landon		Tom Goodwin		
Signature:		Signature:		
Training Provider Signa	ture			
Approved By (Print Name):		Title:		
Diana Hamilton		Mangager		
Signature of the Training Provider:				
Date:				
01/31/2025				
If additional training providers are needed, go to page 4. SBCTC				
Print Name:		Title:		
Signature of the Program Administrator:				
Date:				
☐ SBCTC recommends ap	proval 🗆 SBC	TC recommends return to	sponsor	

Program Name Douglas County Public Utility District No. 1	Occupational Objective Meterman
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 "Description of Element/Course" field.	uic		
Describe minimum hours of study per year in terms of (check one):			

 \boxtimes 12-month period from date of registration.

☐ Defined 12-mor ☐ 2,000 hours of o	•		
	, ,	D) 111 444	
Element/Course: Year 1 Mode of Instruction (check all that apply)		Planned Hours: 144	
⊠ Classroom	⊠ Lab □ Online □ Self-Study	Classroom 60% / Lab 40%	
Provided by: Nati Description of element/o	onal Metering and Technical Services, LLC		
•	ion to Metering	NUS Book and Video	
2. Basic Pa	rts of Meter	Practical	
	epts (inductance/reactance, resistive circui		
phasor di	iagrams, power usage, etc.)	Labs and Practical	
4. Principles	s of Magnetism	NUS Book and Video	
5. Math for power tria	Metering 1 (powers, trigonometry, angle)	NUS Book and Video and Practical	
	Metering 2 (sine, cosine, tangents, ctor, sine waves)	NUS Book and Video	
7. Safety in	7. Safety in Meter Work (meter socket checks, diversion)NUS Book and Video Labs and Practical		
8. Transforr	mer Board (delta, wye, buck and boost, pha	asing) Labs and Practical	
9. Watthour and mete	Meter Principles 1 (eddy currents, fluxes er coils)	NUS Book and Video, Labs and Practical	
10. Watthour	Meter Principles 2	NUS Book and Video	
11. Meter Wi	ring (Form specified)	Practical and Labs	
12. Meter Tro	oubleshooting	Practical and Labs	

13. Principles of Accuracy Testing (load box, standards, portable equipment)

NUS Book and Video, Labs and Practical

14. Instrument Transformers (Burdens, VA, current and potential)

NUS Book and Video,
Labs and Practical

15. Introduction to Polyphase Systems Practical

Element/Course: Year 2	Planned Hours: 144
Mode of Instruction (check all that apply)	Classroom 60% / Lab 40%
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study	1.0
Provided by: National Metering and Technical Services, L Description of element/course:	LLC
Review of Electrical Concepts	Delmar and Practical
2. Polyphaser System Voltages	Delmar & Transformer Board
3. Principles of Accuracy Testing	NUS Book and Video
4. Watthour Meter Testing 1	NUS Book and Video
5. Watthour Meter Testing	NUS Book and Video
6. Testing Transformer Rated Meters	NUS Book/Video/Practical
7. Polyphase Systems 1	NUS Book/Video/Delmar
8. Polyphase Systems 2	NUS Book/Video/Delmar
9. Meter Troubleshooting	Practical and Labs
10. Wiring Forms 3-Phase	Meterman Handbook/Diagrams
11. Self-Contained Polyphase Meter Test	NUS Book/Video/Practical
12. Polyphase Transformer Rated	NUS Book and Video
13. Installation Checks and Inspections	NUS Book and Video
14. Customer Relations and High Bill Complains	NUS Book and Video

15. Energy Diversion NUS Book and Video

Element/Course: Year 3	Planned Hours: 144
Mode of Instruction (check all that apply) ⊠ Classroom ⊠ Lab □ Online □ Self-Study	Classroom 60% / Lab 40%
Provided by: National Metering and Technical Services, LLC	
Description of element/course:	
Demand Metering Concepts	NUS Book & Video, Meter Handbook
2. Testing & Calibrating Demand Meters	NUS Book & Video, Meter Handbook
3. Reactive Metering Concepts	NUS Book & Video, Meter Handbook
4. Troubleshooting Techniques	NUS Book & Video
5. Introduction to Harmonics	Fluke Tapes, Meter Handbook
6. Distortion Power Factors	Meter Handbook
7. Totalization Metering	Practical & Labs
8. Relay Concepts	Practical & Labs
9. Substation System Simulation	Practical & Labs
10. Automatic Meter Reading	Practical & Labs
11. Electronic Fundamentals	Electronic Book
12.Logic Diagrams	Electronic Book
13. Future of Metering	Practical

Additional Training Providers (if necessary)

Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
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Print Name Training Provider	Signature of Training Provider
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Title of Training Provider	Organization of Training Provider
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Title of Training Provider	Organization of Training Provider
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Title of Training Provider	Organization of Training Provider

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lo. 1 of Douglas County

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Committee Selection Process

The Distribution Operations department at Douglas County PUD works together to establish a fair, equitable and transparent recruitment process. An individual from each department volunteered to represent their group.

We had four Employee Representatives and four Employer Representatives volunteer, to compose our Committee.

At our first Apprenticeship Committee meeting, we established our Chairman and Secretary. We discussed our State Apprenticeship Standard Material.

Chair, Chance Landon

Secretary, Tom Goodwin

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L&I Apprenticeship Consultant

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



Apprenticeship Committee Representative Qualifications

Name of Program							
DOUGLAS COUNTY PUBLIC UTILITY DISTRICT NO. 1							
2002/10000			. '				
Committee Repres	entative Name	Co	ommittee Representative Signatu	172			
Employer Rep	presentative	- Ponrocontati	ve (Does not have the authoria	-	oort	firo)	
		e ixepieseiliali	ve (Does not have the authorit	y to mi	e or i	ne)	
Work Experi							
Position (most recent first)	Employer / Organization	1		From (mm.		To (mm/yy)	
Superintendent	Douglas County PUD			08/19	991	current	
App. Lineman	Orcas Power and Light			1989		1991	
Lineman	Heatly Line Construction	l		1988		1989	
	,						
Education Hi	story						
Name of Trainin (most recent firs		Completed Date (mm/yy)	Program of Study	Degree Certific		gree or rtification	
State Approved A	Apprenticeship	07/91	Rural Lite		Certification		
Bismark State C	ollege	1988-1991	Lineman School		Deg	ree	
Other Techni	ical Certifications or	Licenses	Held				

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Apprenticeship Committee Representative Qualifications

Name of Program DOUGLAS COU	NTY PUBLIC UTILITY DI	ISTRICT NO	1				
	TATT OBEIO OTIETT B						
Committee Represo Shauna Cenotto	entative Name	Co	mmittee Representative/Signa	ature /)		
	resentative	Representativ	re (Does not have the autho	ority to hire	ori	fire)	
Work Experie	ence						
Position (most recent first)	Employer / Organization			From (mm/		To (mm/yy)	
HR Administratr	Douglas County PUD			4/202	0	Current	
Advanceme Dir.	The River Academy			7/201	7	4/2020	
Real Estate	Laura Mounter Real Esta	ate		4/201	3	7/2017	
HR Generalist	Chelan County PUD			7/200	1	9/2009	
Education Hi	story			L			
Name of Training (most recent firs	g and/or School	Completed Date (mm/yy)	Program of Study			gree or rtification	
Central WA Univ	ersity	1999	Business/Human Resou	Resources BS		SBA	
						-	
041 T 1							
	cal Certifications or	Licenses I	Held				
Senior Professio	nal Human Resources						

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Apprenticeship Committee Representative Qualifications

Name of Program Douglas County	Public Utility District NO.	1 Apprentices	ship Committee		,	
Committee Represe Brent Darnell	entative Name	Со	npittee Representative Signatur			
Employer Rep	resentative 🔀 Employee	Representativ	e (Does not have the authority	y to hire	or fire)	
Work Experie	ence					
Position (most recent first)	Employer / Organization			From (mm/y	To yy) (mm/yy)	
Meterman	Douglas County PUD			01/24	Present	
Assi. Sys. Oper	Douglas County PUD			12/18	01/24	
Meterman	Douglas County PUD			10/02	12/18	
Dist. Helper	Douglas County PUD			05/00	10/01	
Warehouseman	Douglas County PUD	06/99	5/00			
Meter Reader	Douglas County PUD 11/98			11/98	06/99	
Education Hi	etory					
Name of Training (most recent firs	g and/or School	Completed Date (mm/yy)	Program of Study		Degree or Certification	
NWTT Apprentic	e Meterman	10/04	Electrical Meters	,	Jo.Meterman	
Northwest Nazaı	rene University	06/98	Political Science		ВА	
Wenatchee Valle	ey College	06/96	General	,	AA	
Other Techni	ical Certifications or	Licenses I	Held			
Other recining	car ocranications or	LIOCITOCO	IOIG	• • • • • • • • • • • • • • • • • • •		

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Apprenticeship Committee Representative Qualifications

Name of Program Douglas County	Public Utility District NO.	1 Apprentices	ship Committee		
Committee Represe Tom Goodwin	entative Name	ر کو	mmittee Representative/Signatur	re	
	resentative	Representativ	ve (Does not have the authorit	ty to hire or	fire)
Work Experie	ence				
Position (most recent first)	Employer / Organization			From (mm/yy)	To (mm/yy)
Assistant Super	Douglas County Pud			12/1/24	Current
Networks Forma	Douglas County Pud			5/30/22	11/30/24
Networks Linema	Douglas County Pud			5/15/09	5/30/22
Journey Linemaı	Douglas County Pud			2004	2009
App Lineman	Douglas County Pud			2002	2004
App Lineman	NWJATC 2000				2002
Education Hi	storv				
Name of Training (most recent firs	g and/or School	Completed Date (mm/yy)	Program of Study		egree or ertification
Northwest Line C	Construction JATC	5/04	Line Construction Mainten	ance Jo	ırneyman
					Aromon.
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Other Techni	ical Certifications or	Licenses I	Held		

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Apprenticeship Committee Representative Qualifications

Committee Repres	entative Name	Co	ommittee Representative Signa	ature		
Chance Landon			William Control of the Control of th	aturo		
Employer Rep	resentative X Employee	Representativ	e (Does not have the auth	ority to hire o	r fire)	
Work Experie	ence					
Position (most recent first)	Employer / Organization			From (mm/yy)	To (mm/yy)	
Jrny Lineman	Douglas County PUD			09/13	current	
Line Apprentice	Southwest JATC			05/10	09/13	
Education Hi	istory					
Name of Training (most recent firs	g and/or School	Completed Date (mm/yy)	Program of Study		egree or ertification	
Southwest JATC	,	09/13	Electrical (line trade)	се	certification	
Avista Line Scho	ool/Spokane Comm. Coll.	04/09	Electrical (line trade)	се	certification	
Energy Technolo	ogy/WVC	06/08	Electrical	ce	rtification	
Other Techni	ical Certifications or	Licaneae	Hald			
Other recini	ical Certifications of	LICEIISES I	ileiu			

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<u>Teri Gardner 8-14-25</u> L&I Admin

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Apprenticeship Committee Representative Qualifications

Committee Repres Lance Manning	entative Name	Co	omplitee Representative Sign	nature		
Employer Rep	resentative 🗵 Emplo	yee Representati	e (Does not have the auth	hority to him	e or	fire)
Work Experie	ence					
Position (most recent first)	Employer / Organizat	ion		From (mm.		To (mm/yy)
Line Foreman 2	Douglas County PUD			12/20	119	Present
Line Foreman	Douglas County PUD			10/20	17	12/2019
Lineman	Douglas County PUD			6/200	7	10/2017
App. Lineman	Douglas County PUD				14	6/2007
		42.484				
Education Hi	storv					
Name of Trainin (most recent firs	g and/or School	Completed Date (mm/yy)	Program of Study			gree or rtification
NW Line JATC		06/2007	Journey Lineman Certif	ficate		
Avista Lineman 🤄	School	01/2001	Electrical Lineman Prog	rogram AS		
a state annual property						

Other Techni	cal Certifications	or Licenses I	Held			
Other rechin	cai cei illications	OI LICEIISES I	ITOIU			

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Apprenticeship Committee Representative Qualifications

Name of Program					
	JNTY PUBLIC UTILITY DI	STRICT NO.	1		
Committee Repres	entative Name	Co	mmittee Representative Signatu	re	
Employer Rep	oresentative 🗵 Employee	Representativ	ve (Does not have the authorit	y to hire	or fire)
Work Experi	ence				
Position (most recent first)	Employer / Organization			From (mm/y	
Wireman	Douglas County PUD			08/17	Present
Apprentice	Douglas County PUD			07/14	08/17
Education H	istory				
Name of Trainin (most recent firs	g and/or School st)	Completed Date (mm/yy)	Program of Study		Degree or Certification
NJATC/ Chelan	PUD Yrs 1-3	07/17	Substation Tech/Wireman		Journeyman
Other Techn	ical Certifications or	Licenses I			

Public Utility District No. 1 of Douglas County

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January 30, 2025

RE: Douglas PUD Apprenticeship program sustainability statement

To whom it may concern,

Public Utility District No.1 of Douglas County supports and funds the Douglas County PUD Apprenticeship program through wages, training, tuition and meeting expenses.

Please feel free to reach out should any questions arise.

Thank you,

Chance Landon

Program Chair

Tom Goodwin

Program Secretary