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RECEIVED 2/29/2024 SNYS - KENN	<i>Teri Gardner 3-1-24</i> L&I Admin
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 State Apprenticeship & Training Council
FROM: OKANOGAN PUD APPRENTICESHIP

Check the appropriate box:

Committee

Plant

OJT

Occupation(s)	SOC Code	Hours
LINEMAN	49-9051.00	6000
METERMAN	49-2095.00	6000
POWER SYSTEMS WIREMAN	49-2095.00	6000

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

<input checked="" type="checkbox"/> Chair	Date <u>2-29-24</u>	<input checked="" type="checkbox"/> Secretary	Date <u>2-29-24</u>
<input type="checkbox"/> Authorized Signer			
Print Name: Bryce Hubbard		Print Name: Katie Pfitzer	
Signature: <i>Bryce Hubbard</i>		Signature: <i>Katie Pfitzer</i>	

Approved By: Washington State Apprenticeship & Training Council
Signature of the WSATC:
Date:

Teri Gardner 3-1-24

SNYS- Kenn Rec'd 2-29-24



**APPRENTICESHIP PROGRAM STANDARDS
adopted by**

OKANOGAN PUD APPRENTICESHIP

(sponsor name)

Occupational Objective(s):

SOC#

Term [WAC 296-05-015]

LINEMAN

49-9051.00

6000 HOURS

METERMAN

49-2095.00

6000 HOURS

POWER SYSTEMS WIREMAN

49-2095.00

6000 HOURS



APPROVED BY

Washington State Apprenticeship and Training Council

REGISTERED WITH

Apprenticeship Section of Fraud Prevention and Labor Standards

Washington State Department Labor and Industries

Post Office Box 44530

Olympia, Washington 98504-4530

APPROVAL:

Provisional Registration

Standards Last Amended

Permanent Registration

By: _____
Chair of Council

By: _____
Secretary of Council

OKANOGAN PUD APPRENTICESHIP

INTRODUCTION

This document is an apprenticeship program standard. Apprenticeship program standards govern how an apprenticeship works and have specific requirements. This document will explain the requirements.

The director of the Department of Labor and Industries (L&I) appoints the Washington State Apprenticeship and Training Council (WSATC) to regulate apprenticeship program standards. The director appoints and deputizes an assistant director to be known as the supervisor of apprenticeship who oversees administrative functions through the apprenticeship section at the department.

The WSATC is the sole regulatory body for apprenticeship standards in Washington. It approves, administers, and enforces apprenticeship standards, and recognizes apprentices when either registered with L&I's apprenticeship section, or under the terms and conditions of a reciprocal agreement. WSATC also must approve any changes to apprenticeship program standards.

Apprenticeship programs have sponsors. A sponsor operates an apprenticeship program and declares their purpose and policy herein to establish an organized system of registered apprenticeship education and training. The sponsor recognizes WSATC authority to regulate and will submit a revision request to the WSATC when making changes to an apprenticeship program standard.

Apprenticeships are governed by federal law (29 U.S.C 50), federal regulations (29 CFR Part 29 & 30), state law (49.04 RCW) and administrative rules (WAC 296-05). These standards conform to all of the above and are read together with federal and state laws and rules

Standards are changed with WSATC approval. Changes are binding on apprentices, sponsors, training agents, and anyone else working under an agreement governed by the standards. Sponsors may have to maintain additional information as supplemental to these standards. When a standard is changed, sponsors are required to notify apprentices and training agents. If changes in federal or state law make any part of these standards illegal, the remaining parts are still valid and remain in force. Only the part made illegal by changes in law is invalid. L&I and the WSATC may cooperate to make corrections to the standards if necessary to administer the standards.

Sections of these standards identified as bold "**Insert Text**" fields are specific to the individual program standards and may be modified by a sponsor submitting a revised standard for approval by the WSATC. All other sections of these standards are boilerplate and may only be modified by the WSATC. See WAC 296-05-003 for the definitions necessary for use with these standards.

Sponsor Introductory Statement (Required):

OKANOGAN PUD APPRENTICESHIP

The following apprenticeship program standards have been prepared by representatives of Public Utility District No. 1 of Okanogan County, Okanogan, Washington, and representatives of I.B.E.W. Local 77, Unit 127 (“Union”) of Okanogan, Washington.

The Program Sponsor declares the purpose and policy herein is to establish an organized system of registered apprenticeship education and training. The District recognizes Washington State Apprenticeship and Training Council's (“WSATC”) authority to regulate and will submit revision requests to WSATC when making changes to an apprenticeship program standard.

When approved by and registered with WSATC, these Standards will govern the training of apprentices in this industry.

I. GEOGRAPHIC AREA COVERED:

The sponsor must train inside the area covered by these standards. If the sponsor wants to train outside the area covered by these standards, the sponsor must enter a portability agreement with a sponsor outside the area, and provide evidence of such an agreement for compliance purposes. Portability agreements permit training agents to use apprentices outside the area covered by the standards. Portability agreements are governed by WAC 296-05-009.

The area covered by these Standards shall be within the service territory of PUD No 1 of Okanogan County in the state of Washington.

II. MINIMUM QUALIFICATIONS:

Minimum qualifications must be clearly stated and applied in a nondiscriminatory manner [WAC 296-05-015(17)].

- Age: **Applicants for apprenticeship must be at least 18 years of age at the time bid application is submitted.**
- Education: **Applicants for apprenticeship must have high school diploma or equivalent**
- Physical: **Applicants for apprenticeship must be physically capable of performing the work of the craft with or without reasonable accommodations.**
- Testing: **None**
- Other: **Current and valid state driver license. Driving record must be eligible for CDL**

*Teri Gardner 3-11-24***OKANOGAN PUD APPRENTICESHIP****III. CONDUCT OF PROGRAM UNDER WASHINGTON EQUAL EMPLOYMENT OPPORTUNITY PLAN:**

Sponsors with five (5) or more apprentices must adopt an Equal Employment Opportunity (EEO) Plan and Selection Procedure (chapter 296-05 WAC and 29 CFR Part 30).

The recruitment, selection, employment and training of apprentices during their apprenticeship shall be without discrimination because of race, sex (including pregnancy and gender identity), sexual orientation, color, religion, national origin, age, genetic information, disability or as otherwise specified by law. The sponsor shall take positive action to provide equal opportunity in apprenticeship and will operate the apprenticeship program as required by the rules of the Washington State Apprenticeship and Training Council and Title 29, Part 30 of the Code of Federal Regulations.

A. Selection Procedures:

Exempt per WAC 296-05-405(1) (b)

B. Equal Employment Opportunity Plan:

Exempt per WAC 296-05-405(1) (b)

C. Discrimination Complaints:

Any apprentice or applicant for apprenticeship who believes they have been discriminated against may file a complaint with the supervisor of apprenticeship (WAC 296-05-443).

IV. TERM OF APPRENTICESHIP:

The term of apprenticeship for an individual apprentice may be measured through the completion of the industry standard for on-the-job learning (at least two thousand hours) (time-based approach), the attainment of competency (competency-based approach), or a blend of the time-based and competency-based approaches (hybrid approach) [WAC 296-05-015].

The term of apprenticeship for lineman, power systems wireman, and meterman shall be 6,000 hours.

V. INITIAL PROBATIONARY PERIOD:

An initial probationary period applies to all apprentices, unless the apprentice has transferred from another program. During an initial probationary period, an apprentice can be discharged without appeal rights. An initial probationary period is stated in hours or competency steps of employment. The initial probationary period is not reduced by advanced credit or

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standing. During an initial probationary period, apprentices receive full credit for hours and competency steps toward completion of their apprenticeship. Transferred apprentices are not subject to additional initial probationary periods [WAC 296-05-003].

The initial probationary period is [WAC 296-05-015(22)]:

- A. The period following the apprentice's registration into the program. An initial probationary period must not be longer than twenty percent of the term of the entire apprenticeship, or longer than a year from the date the apprenticeship is registered. The WSATC can grant exemptions for longer initial probationary periods if required by law.
- B. The period in which the WSATC or the supervisor of apprenticeship may terminate an apprenticeship agreement at the written request by any affected party. The sponsor or the apprentice may terminate the agreement without a hearing or stated cause. An appeal process is not available to apprentices in their initial probationary period.
- C. **All apprentices employed in accordance with these Standards shall be subject to a probationary period for the 1200 hours of service.**

VI. RATIO OF APPRENTICES TO JOURNEY LEVEL WORKERS

Supervision is the necessary education, assistance, and control provided by a journey-level employee on the same job site at least seventy-five percent of each working day, unless otherwise approved by the WSATC. Sponsors ensure apprentices are supervised by competent, qualified journey-level employees. Journey level-employees are responsible for the work apprentices perform, in order to promote the safety, health, and education of the apprentice.

- A. The journey-level employee must be of the same apprenticeable occupation as the apprentice they are supervising unless otherwise allowed by the Revised Code of Washington (RCW) or the Washington Administrative Code (WAC) and approved by the WSATC.
- B. The numeric ratio of apprentices to journey-level employees may not exceed one apprentice per journey-level worker [WAC 296-05-015(5)].
- C. Apprentices will work the same hours as journey-level workers, except when such hours may interfere with related/supplemental instruction.
- D. Any variance to the rules and/or policies stated in this section must be approved by the WSATC.
- E. The ratio must be described in a specific and clear manner, as to the application in terms of job site, work group, department or plant:

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There shall not be more than one apprentice to one journey-level worker in the classification of work involved. This ratio shall apply to each crew and job site and the apprentice shall work under the direction of the journey-level worker. For the purpose of this rule, the foreman shall be considered a journey-level worker.

VII. APPRENTICE WAGES AND WAGE PROGRESSION:

- A. Apprentices must be paid at least Washington’s minimum wage, unless a local ordinance or a collective bargaining agreement require a higher wage. Apprentices must be paid according to a progressively increasing wage scale. The wage scale for apprentices is based on the specified journey-level wage for their occupation. Wage increases are based on hours worked or competencies attained. The sponsor determines wage increases. Sponsors must submit the journey-level wage at least annually or whenever changed to the department as an addendum to these standards. Journey-level wage reports may be submitted on a form provided by the department. Apprentices and others should contact the sponsor or the Department for the most recent Journey-level wage rate.

- B. Sponsors can grant advanced standing, and grant a wage increase, when apprentices demonstrate abilities and mastery of their occupation. When advanced standing is granted, the sponsor notifies the employer/training agent of the wage increase the apprenticeship program standard requires.

- 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 296-05-015(26):

Linemen, Power Systems Wireman, Metermen:

Step	Hour Range or competency step	Percentage of journey-level wage rate
1	0000 - 1000 hours	74.92%
2	1001 - 2000 hours	77.27%
3	2001 - 3000 hours	80.42%
4	3001 - 4000 hours	83.21%
5	4001 - 5000 hours	85.01%
6	5001 - 6000 hours	89.93%

VIII. WORK PROCESSES:

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The apprentice shall receive on the job instruction and work experience as is necessary to become a qualified journey-level worker versed in the theory and practice of the occupation covered by these standards. The following is a condensed schedule of work experience, which every apprentice shall follow as closely as conditions will permit. The following work process descriptions pertain to the occupation being defined.

A. <u>Lineman:</u>	<u>Approximate Hours/Competency Level</u>
1. Construct, repair, and maintain overhead conductors and insulators, switches, cutouts, and other protective devices	1000
2. Construct and maintain underground conductor and associated switches, cutouts, and protective devices.....	1000
3. Construct and maintain energized primary circuits with hot stick method	1000
4. Construct, repair, and maintain overhead poles, arms and guys.....	900
5. Construct and maintain transformers, underground, pad mount, pole mount, pole mounted equipment	500
6. Construct and maintain underground and overhead services	500
7. Safely and efficiently operate heavy equipment and tools of the trade	400
8. Create, interpret, and construct of work sketches.....	200
9. Locating and metering of overhead and underground lines.....	200
10. Safely and efficiently operate substation	100
11. Efficient operation of AppSuite (GIS mapping, Outage Management System, Work Management).....	100
12. Attend and actively participate in safety meetings, care and inspection of safety equipment	100
Total Hours:	6000

B. <u>Meterman:</u>	<u>Approximate Hours/Competency Level</u>
1. Installation, wiring, site verification, and data verification of transformer-rated meters	1200

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2. Install poly and single-phase self-contained meter, understanding voltage requirements, rotation, loading, transformer connections.....	1200
3. Interpret and comply with PUD service regulations, equipment requirements and standards, rate schedules, L&I and WAC codes.....	800
4. Conduct meter testing, in-shop testing, field testing and auditing, meter data recording and tracking, meter programming	800
5. Generate and analyze remote communication and billing data to troubleshoot irregularities	400
6. Maintain and troubleshoot remote metering, communication types, signal testing.....	300
7. Install primary metering, utilize high-voltage safety requirements and appropriate tool usage.....	300
8. Install power quality devices and analyze data to determine cause and effect of electrical components and	200
9. Identify and diagnose distribution system abnormalities, locating stray voltages	200
10. Locate and identify radio frequency interference, coronas, from varying sources	200
11. Investigate and resolve customer service and high bill complaints.....	100
12. Attend and participate in safety meeting, first aid and CPR training.....	100
13. Detect and investigate power diversion, collect and document evidence of abnormalities	100
14. Maintenance and testing of test equipment.....	100
Total Hours:	6000

C. Power Systems Wireman Approximate Hours/Competency Level

1. Install, adjust, repair and maintain switching equipment	1200
2. Wire and test of control, meter, and relay circuits and equipment	1200

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3. Fabricate, assemble, and safely operate metal, wood, or concrete materials, tools of the trade, animal guarding, painting, and heavy equipment.....	600
4. Install, repair and maintain power transformers	450
5. Construct and assemble embedded and surface conduit	400
6. Repair and maintain electrical equipment	400
7. Install and maintain batteries, battery chargers, and miscellaneous control equipment.....	350
8. Layout of new construction and installations from engineering drawings	300
9. Practice safe and proper handling of mineral oil and PCBs.....	300
10. Install and maintain voltage regulators and accessory equipment	250
11. Install power wiring and bus-bars	250
12. Perform substation inspection	200
13. Attend and actively participate in safety meetings	100

Total Hours: 6000

IX. RELATED/SUPPLEMENTAL INSTRUCTION:

The apprentice must attend related/supplemental instruction (RSI). Time spent in RSI shall not be considered as hours of work and the apprentice is not required to be paid.

RSI must be provided in safe and healthy conditions as required by the Washington Industrial Safety and Health Act and applicable federal and state regulations.

Hours spent in RSI are reported to L&I each quarter. Reports must show which hours are unpaid and supervised by a competent instructor versus all other hours (paid and/or unsupervised) for industrial insurance purposes.

For purposes of coverage under the Industrial Insurance Act, the WSATC is an employer and the apprentice is an employee when an unpaid, supervised apprentice is injured while under the direction of a competent instructor and participating in RSI activities.

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If apprentices do not attend required RSI, they may be subject to disciplinary action by the sponsor.

A. The methods of related/supplemental training must be indicated below (check those that apply):

Supervised field trips

Sponsor approved training seminars (specify)

Sponsor approved online or distance learning courses (specify) **Northwest Technical Training**

State Community/Technical college

Private Technical/Vocational college

Sponsor Provided (lab/classroom)

Other (specify): **Training courses provided by approved WSATC RSI provider.**

B. **144** Minimum RSI hours per year defined per the following [see WAC 296-05-015(6)]:

Twelve-month period from date of registration.*

Defined twelve-month school year: **(Insert Month)** through **(Insert Month)**.

Two-thousand hours of on the job training.

**If no selection is indicated above, the WSATC will define RSI hours per twelve-month period from date of registration.*

C. Additional Information:

All apprentices will be required to obtain a current first-aid card, which shall include CPR certification, before advancing to the second step of apprenticeship, and must have a current first-aid card, which shall include CPR certification, before taking the journey-level worker examination.

X. ADMINISTRATIVE/DISCIPLINARY PROCEDURES:

A. Administrative Procedures:

The sponsor may include in this section a summary and explanation of administrative actions performed at the request or on the behalf of the apprentice. Such actions may include but are not limited to:

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1. Voluntary Suspension: A temporary interruption in progress of an individual's apprenticeship agreement at the request of the apprentice and granted by the sponsor. The program sponsor shall review apprentices in suspended status at least once each year to determine if the suspension is still appropriate.
2. Advanced Standing or Credit: The sponsor may provide for advanced standing or credit for demonstrated competency, acquired experience, training or education in or related to the occupation. All sponsors need to ensure a fair and equitable process is applied to all apprentices seeking advanced standing or credit per WAC 296-05-015(11).
3. Sponsor Procedures:
 - a. **If an apprentice has demonstrated unusual proficiency, the Committee may recommend the issuance of a certificate before the end of the full term of apprenticeship in accordance with the state standards. Hot time will not be waived by any means in the lineman's apprenticeship. The issuance of a certificate at any time will in no way affect the status of the apprentice in his/her employment with the District, which is covered by the union agreement.**
 - b. **Records: Each month, on-the-job training (OJT) and related supplemental instruction (RSI) hours must be submitted no later than the 5th day of the following month. Failure to submit OJT and RSI reports to the coordinator by the 5th day of the following month may result in loss of hours and/or disciplinary action by the Committee. Where there is no free time after the crews return to the office to make out this record, it will be done on his/her own time without compensation. The total monthly OJT hours submitted must be the same as the total monthly OJT hours reported in the time entry in the iVUE Connect Financials. Failure to consistently document OJT and RSI with the time entry in iVUE Connect may result in disciplinary action by the Committee.**
 - c. **Periodic Evaluations:**
 - 1) **An evaluation covering the field progress of apprentices will be given as determined by the Committee, but not more frequently than once each month. The Committee shall recommend records or reports of apprentices to show progress in the trade and in related instruction. Apprentices must submit all evaluations no later than the 5th day of the following month**
 - 2) **If an apprentice shows a lack of willingness or ability to become a competent craftsman, all the facts of the case should be placed before the Committee for consideration on appropriate action which may include discipline.**

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- d. **The Apprenticeship Committee will counsel an apprentice who fails to make satisfactory progress either in on-the-job training or in related classroom instruction.**
 - 1) **Any evaluations with below satisfactory ratings will be reviewed for action by the Committee. Action may include holding in step or discipline.**
 - 2) **Classroom attendance for apprentices is compulsory. All classroom absences, late arrival, and early dismissals must have the proper approval of the instructor. Any apprentice receiving an unexcused absence in a school year will be contacted and may be called before the Committee. The apprentice will need to work with the instructor to make up any classes missed through the term of apprenticeship.**
 - 3) **Apprentices must maintain a minimum grade average of 80%. Any apprentice that receives less than 80% minimum grade after a quarter or scores below 80% on any test during the school year will be contacted and may be called before the Committee.**

B. Disciplinary Procedures

1. The obligations of the sponsor when taking disciplinary action are as follows:
 - a. The sponsor shall be responsible for enacting reasonable policies and procedures and applying them consistently. The sponsor will inform all apprentices of their rights and responsibilities per these standards.
 - b. The sponsor shall notify the apprentice of intent to take disciplinary action and reasons therefore 20 calendar days prior to taking such action. The reason(s) supporting the sponsor's proposed action(s) must be sent in writing to the apprentice.
 - c. The sponsor must clearly identify the potential outcomes of disciplinary action, which may include but are not limited to discipline, suspension or cancellation of the apprenticeship agreement.
 - d. The decision/action of the sponsor will become effective immediately.
2. The sponsor may include in this section requirements and expectations of the apprentices and an explanation of disciplinary actions imposed for noncompliance. The sponsor has the following disciplinary procedures to adopt:
 - a. Disciplinary Probation: A time assessed when the apprentice's progress is not satisfactory. During this time the sponsor may withhold periodic wage

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advancements, suspend or cancel the apprenticeship agreement, or take further disciplinary action. A disciplinary probation may only be assessed after the initial probation is complete.

- b. Disciplinary Suspension: A temporary interruption in the progress of an individual's apprenticeship agreement. Conditions will include not being allowed to participate in On-the-Job Training (OJT), go to Related Supplemental Instruction (RSI) classes or take part in any activity related to the Apprenticeship Program until such time as the sponsor takes further action. The program sponsor shall review apprentices in such status at least once each year.
 - c. Cancellation: Refers to the termination of an apprenticeship agreement at the request of the apprentice, supervisor, or sponsor. [WAC 296-05-003].
3. Sponsor Disciplinary Procedures:

Discipline is imposed based on the seriousness of the misconduct, violation and/or offense and the employee's past record of performance and misconduct. The Committee may impose progressive discipline in order of increasing severity from verbal reprimand to cancellation of the apprenticeship agreement, but will not be required to follow progressive discipline where the misconduct, violation and/or offense is serious and warrants skipping one or more disciplinary steps in the sole discretion of the District. Progressive discipline steps may, but are not required to, include a verbal or written reprimand, suspension without pay, demotion or cancellation of the apprenticeship agreement.

C. Apprentice Complaint Procedures:

1. The apprentice must complete his/her initial probationary period in order to be eligible to file a complaint (WAC 296-05-105).
2. Complaints involving matters covered by a collective bargaining agreement are not subject to the complaint procedures in this section.
3. Complaints regarding non-disciplinary matters must be filed with the program sponsor within 30 calendar days from the date of the last occurrence. Complaints must be in writing.
4. If the apprentice disagrees with the resolution of the complaint or wishes to contest the outcome of a disciplinary action by the program sponsor, the apprentice must file a written request for reconsideration with the program sponsor within 30 calendar days from the date the apprentice received written notice of action by the program sponsor.
5. The program sponsor must reply, in writing, to the request for reconsideration within 30 calendar days from the date the program sponsor receives the request. The

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program sponsor must send a copy of the written reply to the apprentice within the 30 calendar days.

6. If the apprentice disagrees with the program sponsor's decision, the apprentice may file an appeal with the Apprenticeship Program, (WAC 296-05-105). If the apprentice does not timely file an appeal, the decision of the program sponsor is final after 30 calendar days from the date the program sponsor mails the decision to the apprentice. See section "D" below.

D. Apprentice Complaint Review/Appeals Procedures:

1. If the apprentice disagrees with the program sponsor's decision, the apprentice must submit a written appeal to L&I's apprenticeship section within 30 calendar days from the date the decision is mailed by the program sponsor. Appeals must describe the subject matter in detail and include a copy of the program sponsor's decision.
2. The L&I apprenticeship section will complete its investigation within 30 business days from the date the appeal is received and attempt to resolve the matter.
3. If the Apprenticeship section is unable to resolve the matter within 30 business days, the Apprenticeship section issues a written decision resolving the appeal.
4. If the apprentice or sponsor is dissatisfied with L&I's decision, either party may request the WSATC review the decision. Requests for review to the WSATC must be in writing. Requests for review must be filed within 30 calendar days from the date the decision is mailed to the parties.
5. The WSATC will conduct an informal hearing to consider the request for review.
6. The WSATC will issue a written decision resolving the request for review. All parties will receive a copy of the WSATC's written decision.

XI. SPONSOR – RESPONSIBILITIES AND GOVERNING STRUCTURE

The following is an overview of the requirements associated with administering an apprenticeship program. These provisions are to be used with the corresponding RCW and/or WAC. The sponsor is the policymaking and administrative body responsible for the operation and success of this apprenticeship program. The sponsor may assign an administrator or a committee to be responsible for day-to-day operations of the apprenticeship program. Administrators and/or committee members must be knowledgeable in the process of apprenticeship and/or the application of chapter 49.04 RCW and chapter 296-05 WAC and these standards. If applicable, sponsors must develop procedures for:

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A. Committee Operations (WAC 296-05-009): (Not applicable for Plant Programs)

Apprenticeship committees must be composed of an equal number of management and non-management representatives from a minimum of four to a maximum of twelve members. Committees must convene meetings at least three times per year attended by a quorum of committee members as defined in these approved standards.

B. Program Operations

The sponsor will record and maintain records pertaining to the administration of the apprenticeship program and make them available to the WSATC or Department upon request. Records required by WAC 296-05-100 will be maintained for five (5) years; all other records will be maintained for three (3) years. Apprenticeship sponsors will submit required forms/reports to the Department of Labor and Industries through one of the two prescribed methods below:

Sponsors shall submit required forms/reports through assigned state apprenticeship consultant. Forms may be obtained through the programs assigned apprenticeship consultant.

Sponsors shall submit required reports through the Apprentice Registration and Tracking System (ARTS).

1. The following is a listing of forms/reports for the administration of apprenticeship programs and the time-frames in which they must be submitted:
 - a. Apprenticeship Agreements – within first 30 days of employment
 - b. Authorization of Signature forms - as necessary
 - c. Approved Training Agent Agreements– within 30 days of sponsor action
 - d. Minutes of Apprenticeship Committee Meetings – within 30 days of sponsor approval (not required for Plant program)
 - e. Request for Change of Status - Apprenticeship/Training Agreement and Training Agents forms – within 30 days of action by sponsor.
 - f. Journey Level Wage Rate – annually, or whenever changed as an addendum to section VII. Apprentice Wages and Wage Progression.
 - g. Related Supplemental Instruction (RSI) Hours Reports (Quarterly):
 - 1st quarter: January through March, due by April 10
 - 2nd quarter: April through June, due by July 10
 - 3rd quarter: July through September, due by October 10
 - 4th quarter: October through December, due by January 10
 - h. On-the-Job Work Hours Reports (bi-annual)
 - 1st half: January through June, by July 30
 - 2nd half: July through December, by January 31
2. The program sponsor will adopt, as necessary, local program rules or policies to administer the apprenticeship program in compliance with these standards. Requests

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for revision to these standards of apprenticeship must be submitted 45 calendar days prior to a quarterly WSATC meeting. The Department of Labor and Industries, Apprenticeship Section's manager may administratively approve requests for revisions in the following areas of the standards:

- a. Program name
 - b. Sponsor's introductory statement
 - c. Section III: Conduct of Program Under Washington Equal Employment Opportunity Plan
 - d. Section VII: Apprentice Wages and Wage Progression
 - e. Section IX: Related/Supplemental Instruction
 - f. Section XI: Sponsor – Responsibilities and Governing Structure
 - g. Section XII: Subcommittees
 - h. Section XIII: Training Director/Coordinator
3. The sponsor will utilize competent instructors as defined in WAC 296-05-003 for RSI. Furthermore, the sponsor will ensure each instructor 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 instruction.

C. Management of Apprentices:

1. Each apprentice (and, if under 18 years of age, the parent or guardian) will sign an apprenticeship agreement with the sponsor, who will then register the agreement with the Department before the apprentice attends RSI classes, or within the first 30 days of employment as an apprentice. For the purposes of industrial insurance coverage and prevailing wage exemption under RCW 39.12.021, the effective date of registration will be the date the agreement is received by the Department.
2. The sponsor must notify the Department within 30 days of all requests for disposition or modification to apprentice agreements, which may include:
 - a) Certificate of completion
 - b) Additional credit
 - c) Suspension (i.e. military service or other)
 - d) Reinstatement
 - e) Cancellation
 - f) Corrections
 - g) Step Upgrades
 - h) Probation Completion date
 - i) Other (i.e., name changes, address)
 - j) Training Agent Cancellation
3. The sponsor commits to rotate apprentices in the various processes of the skilled occupation to ensure the apprentice is trained to be a competent journey-level worker.

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4. The sponsor shall periodically review and evaluate apprentices before advancement to the apprentice's next wage progression period. The evidence of such advancement will be the record of the apprentice's progress on the job and during related/supplemental instruction.
5. The sponsor has the obligation and responsibility to provide, insofar as possible, reasonably continuous employment for all apprentices in the program. The sponsor may arrange to transfer an apprentice from one training agent to another or to another program when the sponsor is unable to provide reasonably continuous employment, or they are unable to provide apprentices the diversity of experience necessary for training and experience in the various work processes as stated in these standards. The new training agent will assume all the terms and conditions of these standards. If, for any reason, a layoff of an apprentice occurs, the apprenticeship agreement will remain in effect unless canceled by the sponsor.
6. An apprentice who is unable to perform the on-the-job portion of apprenticeship training may, if the apprentice so requests and the sponsor approves, participate in related/supplemental instruction, subject to the apprentice obtaining and providing to the sponsor written requested document/s for such participation. However, time spent will not be applied toward the on-the-job portion of apprenticeship training.
7. The sponsor shall hear and decide all complaints of violations of apprenticeship agreements.
8. Upon successful completion of apprenticeship, as provided in these standards, and passing the examination that the sponsor may require, the sponsor will recommend the WSATC award a Certificate of Completion of Apprenticeship. The sponsor will make an official presentation to the apprentice who has successfully completed his/her term of apprenticeship.

D. Training Agent Management:

1. The sponsor shall offer training opportunities for apprentices by ensuring reasonable and equal working and training conditions are applied uniformly to all apprentices. The sponsor shall provide training at an equivalent cost to that paid by other employers and apprentices participating in the program. The sponsor shall not require an employer to sign a collective bargaining agreement as a condition of participation.
2. The sponsor must determine whether an employer can adequately furnish proper on the job training to an apprentice in accordance with these standards. The sponsor must also require any employer requesting approved training status to complete an approved training agent agreement and to comply with all federal and state apprenticeship laws, and these standards.

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- 3. The sponsor will submit training agent agreements to the Department with a copy of the agreement and/or the list of approved training agents within thirty calendar days from the effective date. Additionally, the sponsor must submit rescinded training agent agreements to the Department within thirty calendar days of said action.

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:

The Okanogan PUD Apprenticeship Committee shall be composed a minimum of (8) members: four (4) members representing the District and four (4) members representing IBEW Local 77, Okanogan, Washington, selected by the groups they represent.

A quorum of Committee members must be present at every Committee meeting.

- a. Quorum: **A quorum is two-thirds of the members entitled to vote.**
- b. Program type administered by the committee: **INDIVIDUAL JOINT**
- c. The employer representatives shall be:

**Randy Bird
1331 2nd Ave North
Okanogan, WA 98840**

**Reid Rubert
1331 2nd Ave North
Okanogan, WA 98840**

**Justin Adams
1331 2nd Ave North
Okanogan, WA 98840**

**Katie Pfitzer, Secretary
1331 2nd Ave North
Okanogan, WA 98840**

- d. The employee representatives shall be:

**Bryce Hubbard, Chair
1331 2nd Ave North
Okanogan, WA 98840**

**Luke Rowton
1331 2nd Ave North
Okanogan, WA 98840**

**Gary Wood
1331 2nd Ave North
Okanogan, WA 98840**

**Sean Divis
1331 2nd Ave North
Okanogan, WA 98840**

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Erick Judd, Alternative
1331 2nd Ave North
Okanogan, WA 98840

Nathan Kruse, Alternative
1331 2nd Ave North
Okanogan, WA 98840

F. Plant programs

For plant programs the WSATC or the Department designee will act as the apprentice representative. Plant programs shall designate an administrator(s) knowledgeable in the process of apprenticeship and/or the application of chapter 49.04 RCW and chapter 296-05 WAC and these standards.

The designated administrator(s) for this program is/are as follows:

N/A

XII. SUBCOMMITTEE:

Subcommittee(s) approved by the Department, represented equally from management and non-management, may also be established under these standards, and are subject to the main committee. All actions of the subcommittee(s) must be reviewed by the main committee. Subcommittees authorized to upgrade apprentices and/or conduct disciplinary actions must be structured according to the same requirements for main committees.

To be established as required.

XIII. TRAINING DIRECTOR/COORDINATOR:

The sponsor may employ a person(s) as a full or part-time training coordinator(s)/ training director(s). This person(s) will assume responsibilities and authority for the operation of the program as are delegated by the sponsor.

Katie Pfitzer, Coordinator
1331 2nd Ave North
Okanogan, WA 98840

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L&I Apprenticeship Consultant

Teri Gardner 3-1-24

L&I Admin

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
 FROM: OKANOGAN PUD APPRENTICESHIP

Occupation:	County(ies):	Journey Level Wage Rate:	Effective Date:
Lineman	Okanogan	\$ 58.76	04/01/24
Wireman	Okanogan	\$ 58.76	04/01/24
Meterman	Okanogan	\$ 58.76	04/01/24
		\$	

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 checked="" type="checkbox"/> Chair	Date <i>2-29-24</i>	<input checked="" type="checkbox"/> Secretary	Date <i>2-29-24</i>
<input type="checkbox"/> Authorized Signer			
Print Name: Bryce Hubbard	Print Name: Katie Pfizer		
Signature: <i>Bryce Hubbard</i>	Signature: <i>Katie Pfizer</i>		

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Teri Gardner 3-1-24
L&I Admin

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



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


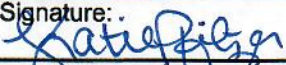
Program Name Okanogan PUD Apprenticeship	
Occupation Power Systems Wireman	
Term/OJT Hours 6000 hours	Total RSI Hours 432
Training Provider Chelan County Public Utility District No. 1	

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

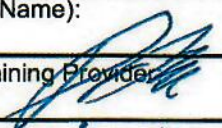
1. The RSI content and delivery method is and remains reasonably consistent with the latest occupational practices, improvements, and technical advances.
2. The RSI is coordinated with the on-the-job work experience.
3. The RSI is provided in safe and healthful work practices in compliances with WISHA 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 checked="" type="checkbox"/> Chair <input type="checkbox"/> Authorized Signer	Date: 2-29-24	<input checked="" type="checkbox"/> Secretary	Date: 2-27-24
Print Name: Bryce Hubbard		Print Name: Kate Pfitzer	
Signature: 		Signature: 	

Training Provider Signature

Approved By (Print Name): Dave Parkhill	Title: Training Director
Signature of the Training Provider: 	
Date: 2/27/2024	

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 Okanogan PUD Apprenticeship Program	Occupational Objective Power Systems Wireman
---	---

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 checked="" type="checkbox"/> Online <input type="checkbox"/> 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

Mid-term 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) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input type="checkbox"/> Self-Study	
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

Mid-term 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

Final Exam

Element/Course: Year 3	Planned Hours: 144
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input type="checkbox"/> Self-Study	
Provided by: Chelan County Public Utility District No 1 Apprenticeship Committee	
Description of element/course: Year 3 Electrical Training Alliance Substation Wireman (online workbooks 1-6) & Delmar's Standard Textbook 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	
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

Mid-term 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

[Click or tap here to enter text.](#)
Title of Training Provider

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

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Title of Training Provider

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Signature of Training Provider

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Organization of Training Provider

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Title of Training Provider

Organization of Training Provider

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L&I Apprenticeship Consultant

Teri Gardner 3-1-24
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 Okanogan PUD Apprenticeship	
Occupation Meterman	
Term/OJT Hours 6000 hours	Total RSI Hours 432
Training Provider National Metering and Technical Services, LLC	

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 checked="" type="checkbox"/> Chair <input type="checkbox"/> Authorized Signer	Date <u>2-29-24</u>	<input checked="" type="checkbox"/> Secretary	Date <u>2-27-24</u>
Print Name: Bryce Hubbard	<i>Bryce Hubbard</i>	Print Name: Katie Pfitzer	
Signature:		Signature:	<i>Katie Pfitzer</i>

Training Provider Signature

Approved By (Print Name): Diana Hamilton	Title: <u>Owner / Instructor</u>
Signature of the Training Provider: <i>Diana Hamilton</i>	
Date: <u>2-27-24</u>	

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 Okanogan PUD Apprenticeship	Occupational Objective Meterman
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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: 1 st Year Meterman Apprenticeship	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: NW Technical Training	
Description of element/course:	
Basic Math/General Math Concepts/Math for Metering	20 hrs
Algebra, Trigonometry, Powers, Sine, Cosine, Tangent, etc.	
Introduction to Metering	14 hrs
Purpose of Metering – Where it sits in utility – Metering Components and Classifications	
Electrical Principles and AC Concepts	40 hrs
Ohms Law, Series and parallel circuits, Resistance, Inductance/Reactance, Phasor diagrams, Power usage, and Sinewaves	
Safety in Meter Work	10 hrs
Meter socket checks. Hazards associated with metering and PPE	
Principles of Magnetism	5 hrs
Fluxes, Eddy currents, Current coil and potential coil interactions, etc.	
Watt-hour Meter Principles	20 hrs
How a meter works, ANSI form numbers, Kh disk constants, Registers, Demands, Fluxes, etc.	
Meter Wiring	10 hrs
Actual hands-on wiring single phase applications and determining ANSI meter form numbers for service. Includes troubleshooting mis-wired applications	
Instrument Transformers	10 hrs
Potential and current transformers. How instrument transformers work to include ratios, burdens, rate factors, and limitations of each transformer. Selection of correct transformer for a service installation.	
Distribution Transformers	10 hrs
Recognition of various distribution transformer connections to determine voltage at meter. Understanding difference between a Delta and Wye banked connection, Banking of transformer connections and their limitations.	
Principles of Accuracy Testing	5 hrs
Loadbox, Standards, Portable test equipment and accuracy testing basics.	
TOTAL HOURS	144 hrs

Element/Course: 2 nd Year Meterman Apprentice	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: NW Technical Training	
Description of element/course:	
Review of Electrical Concepts Ohms law, Single-Phase series and parallel circuits, Trigonometry, Sinewaves and Phasor diagrams	12 hrs
Polyphase Systems Three phase AC concepts. More detailed coverage of Delta and Wye voltages as it relates to meter configurations. Blondel's theorem as it relates to stator or element design of meters. Hands-on distribution transformer connections.	40 hrs
Watt-hour Meter Testing Testing of single phase and polyphase applications. Potential and current coil adjustments. Field and shop testing applications	30 hrs
Self-Contained and Transformer-Rated Applications Classification of meters, load calculations, and ANSI form numbers	30 hrs
Demand Metering Concepts KW demand and why we have it. Rolling, block and demand interval scenarios covered by practical applications and labs.	10 hrs
Three Phase Wiring Standards Hands-on wiring of three phase meter services, Understanding of metering schematics	10 hrs
Installation Checks and Inspections Troubleshooting metering problems, Safety practices discussed	5 hrs
Customer Relations and High Bill Complaints Managing Customer concerns and ways to prevent potential conflict	2 hrs
Energy Diversion Introduction to power or energy diversion. Different ways to detect and prevent power theft.	5 hrs
TOTAL HOURS	144 hrs

Element/Course: 3 rd Year Meterman Apprenticeship	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: NW Technical Training	
Description of element/course:	
Review of Electrical and AC Concepts Review of single and three phase metering	20 hrs
Reactive Metering Concepts KVAR measurements of 3 phase systems which includes delivered and received power. Manual plotting of phase angles from meter installations. Use of computer programs to measure phase angles and power factor.	20 hrs
Solid State Meters Basic components and their functions. Programming and downloading various meter manufacturer's data from meters.	25 hrs
Introduction to Harmonics Identification of harmonics and what causes them and how it effects various equipment components	10 hrs
Totalization Metering Pulse metering for larger commercial customers for load management	4 hrs
Electronic Fundamentals Basic logic diagrams to include and/or/nor/nand gates and binary number conversion	10 hrs
Automated Meter Reading The pros and cons of automated meter reading. A look at the various automated meter reading products and how they work	10 hrs
Future of Metering Discussion and examples of new metering concepts	5 hrs
Metering Scenarios Troubleshooting metering problems. Wiring scenarios. Service evaluations. Safety issues. Old meter installations and other metering concepts	40 hrs
TOTAL HOURS	144 hrs

Additional Training Providers (if necessary)

[Click or tap here to enter text.](#)

Print Name Training Provider

[Click or tap here to enter text.](#)

Title of Training Provider

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Signature of Training Provider

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Organization of Training Provider

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Organization of Training Provider

For L&I Staff Use Only

RECEIVED 2/29/2024
SNYS - KENN

L&I Apprenticeship Consultant

Teri Gardner 3-1-24
L&I Admin

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



Apprenticeship Related/Supplemental Instruction (RSI) Plan Review


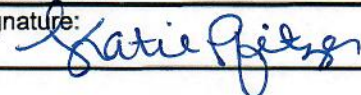
Program Name Okanogan PUD Apprenticeship	
Occupation Lineman	
Term/OJT Hours 6000 hours	Total RSI Hours 432
Training Provider Chelan County Public Utility District No. 1 and Northwest Line Construction JATC	

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

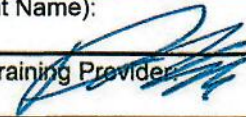
1. The RSI content and delivery method is and remains reasonably consistent with the latest occupational practices, improvements, and technical advances.
2. The RSI is coordinated with the on-the-job work experience.
3. The RSI is provided in safe and healthful work practices in compliances with WISHA 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:
 - 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 checked="" type="checkbox"/> Chair <input type="checkbox"/> Authorized Signer	Date <u>2-28-24</u>	<input checked="" type="checkbox"/> Secretary	Date <u>2-27-24</u>
Print Name: Bryce Hubbard		Print Name: Katie Pfitzer	
Signature: 		Signature: 	

Training Provider Signature

Approved By (Print Name): David Parkhill	Title: Administrator
Signature of the Training Provider: 	
Date: <u>2/15/2024</u>	

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 Okanogan PUD Apprenticeship	Occupational Objective Lineman
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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: 64
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Chelan County Public Utility District No. 1	
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)	

Classroom Lab Online Self-Study

Provided by: Chelan County Public Utility District No. 1

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: Year 3	Planned Hours: 104
------------------------	--------------------

Mode of Instruction (check all that apply)

Classroom Lab Online Self-Study

Provided by: Chelan County Public Utility District No 1

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 ***

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

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) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Online <input checked="" type="checkbox"/> 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) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	
Provided by: Northwest Line Construction JATC	
Description of element/course: Transformer Theory Vectoring Transformer Banks and Connections Paralleling Transformers Simulated Hot Work (120 volts)	

Hot Sticks

Element/Course: 3rd year Lineman Apprentice | Planned Hours: 40

Mode of Instruction (check all that apply)

Classroom Lab Online Self-Study

Provided by: Northwest Line Construction

Description of element/course:

Energized Transmission Work

Advanced Electrical Theory

Mock Journeyman Exam

Additional Training Providers (if necessary)

Terry Lowen

Print Name Training Provider

Director

Title of Training Provider

[Click or tap here to enter text.](#)

Print Name Training Provider

[Click or tap here to enter text.](#)

Title of Training Provider

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Print Name Training Provider

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Title of Training Provider

[Click or tap here to enter text.](#)

Print Name Training Provider

[Click or tap here to enter text.](#)

Terry Lowen

Signature of Training Provider

Northwest Line Construction JATC

Organization of Training Provider

Signature of Training Provider

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2023 Lineman Apprentice RSI Final updated

Final Audit Report

2024-02-28

Created:	2024-02-28
By:	Claudia Repman (claudia@nwlinejetc.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAT118tn1LPSfGJdXI4IhvNpeswuspGdXd

"2023 Lineman Apprentice RSI Final updated" History

-  Document created by Claudia Repman (claudia@nwlinejetc.com)
2024-02-28 - 10:38:04 PM GMT- IP address: 50.173.31.178
-  Document emailed to Terry Lowen (terry@nwlinejetc.com) for signature
2024-02-28 - 10:38:45 PM GMT
-  Email viewed by Terry Lowen (terry@nwlinejetc.com)
2024-02-28 - 10:39:38 PM GMT- IP address: 50.173.31.178
-  Document e-signed by Terry Lowen (terry@nwlinejetc.com)
Signature Date: 2024-02-28 - 10:39:55 PM GMT - Time Source: server- IP address: 50.173.31.178
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Teri Gardner 3-1-24
L&I Admin

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



**Apprenticeship Committee
Representative Qualifications**

The Apprenticeship Committee is responsible for the day-to-day operations of the apprenticeship and training program and operating the program consistent with the standards of apprenticeship. Pursuant to WAC 296-05-009, the Representative listed below shall be familiar with the applicable apprenticeship standards.

Name of Program Okanogan PUD Apprenticeship
--

Committee Representative Name Gary Wood	Committee Representative Signature <i>Gary Wood</i>
--	--

Employer Representative Employee Representative (*Does not have the authority to hire or fire*)

Work Experience

Position (most recent first)	Employer / Organization	From (mm/yy)	To (mm/yy)
Jrny Lineman	Okanogan PUD	03/13	current

Education History

Name of Training and/or School (most recent first)	Completed Date (mm/yy)	Program of Study	Degree or Certification
Okanogan PUD	03/13	Lineman Apprenticeship	Journeyman
Avista Line School	04/07	Pre-Apprentice School	Certificate

Other Technical Certifications or Licenses Held

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Name of Program Okanogan PUD Apprenticeship
--

Committee Representative Name Reid Rubert	Committee Representative Signature <i>Reid Rubert</i>
--	--

<input checked="" type="checkbox"/> Employer Representative	<input type="checkbox"/> Employee Representative (Does not have the authority to hire or fire)
---	--

Work Experience

Position (most recent first)	Employer / Organization	From (mm/yy)	To (mm/yy)
Ops Superinten	Okanogan PUD	09/17	current
Line Foreman II	Douglas PUD	03/12	09/17
Jrnym Lineman	Douglas PUD	03/10	03/12
Jrnym Lineman	Chelan PUD	02/07	03/10
Jrnym Lineman	Okanogan PUD	04/99	02/07

Education History

Name of Training and/or School (most recent first)	Completed Date (mm/yy)	Program of Study	Degree or Certification
Local 77 NW JATC	04/99	Lineman Apprenticeship	Journeyman
Spokane Community College	02/95	WWP Pre-Apprenticeship School	Certificate

Other Technical Certifications or Licenses Held

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**Apprenticeship Committee
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Name of Program Okanogan PUD Apprenticeship
--

Committee Representative Name Luke Rowton	Committee Representative Signature <i>Luke Rowton</i>
--	--

Employer Representative Employee Representative (Does not have the authority to hire or fire)

Work Experience

Position (most recent first)	Employer / Organization	From (mm/yy)	To (mm/yy)
Jnym Lineman	Okanogan PUD	11/17	current
Jnym Lineman	ULCS, Belleville, MI	08/17	11/17

Education History

Name of Training and/or School (most recent first)	Completed Date (mm/yy)	Program of Study	Degree or Certification
Missouri Valley Line Construction	09/13	Lineman Apprenticeship	Journeyman
Avista Line School	04/10	Pre-Apprentice School	Certificate

Other Technical Certifications or Licenses Held

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Name of Program Okanogan PUD Apprenticeship
--

Committee Representative Name Katie Pfitzer	Committee Representative Signature <i>Katie Pfitzer</i>
--	--

Employer Representative Employee Representative (Does not have the authority to hire or fire)

Work Experience

Position (most recent first)	Employer / Organization	From (mm/yy)	To (mm/yy)
HR Manager	Okanogan PUD	05/15	current

Education History

Name of Training and/or School (most recent first)	Completed Date (mm/yy)	Program of Study	Degree or Certification
Western Governors University	02/22	Bus Management & Leadership	Masters
Western Governors University	02/17	Bus Management	Bachelors
Wenatchee Valley College	06/04	AAS	Associates

Other Technical Certifications or Licenses Held

Professional Human Resources (PHR) since 2016

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Name of Program Okanogan PUD Apprenticeship
--

Committee Representative Name Nathan Kruse	Committee Representative Signature <i>Nathan Kruse</i>
---	---

Employer Representative Employee Representative (Does not have the authority to hire or fire)

Work Experience

Position (most recent first)	Employer / Organization	From (mm/yy)	To (mm/yy)
Jmym Wireman	Okanogan PUD	10/14	current
Jmym Electricia	Don Kruse Electric	10/14	06/06
Jmym Electricia	CIPV	05/06	01/02
Jmym Electricia	Don Kruse Electric	12/92	12/01

Education History

Name of Training and/or School (most recent first)	Completed Date (mm/yy)	Program of Study	Degree or Certification
Okanogan PUD	10/14	Wireman Apprenticeship	Journeyman
Don Kruse Electric	12/99	Electrician Apprenticeship	Journeyman

Other Technical Certifications or Licenses Held

Electrical Residential Journeyman Card Master Electrician card KRUSENA878NS
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**Apprenticeship Committee
Representative Qualifications**

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Name of Program Okanogan PUD Apprenticeship
--

Committee Representative Name Erick Judd	Committee Representative Signature <i>Erick Judd</i>
---	---

Employer Representative Employee Representative (Does not have the authority to hire or fire)

Work Experience

Position (most recent first)	Employer / Organization	From (mm/yy)	To (mm/yy)
Jrnym Metrman	Okanogan PUD	08/10	current

Education History

Name of Training and/or School (most recent first)	Completed Date (mm/yy)	Program of Study	Degree or Certification
Okanogan PUD	04/10	Meterman Apprenticeship	Journeyman
Eastern Washington University	06/98	Bus. Finance, Economics	Bachelors

Other Technical Certifications or Licenses Held

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Representative Qualifications**

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Name of Program
Okanogan PUD Apprenticeship

Committee Representative Name
Bryce Hubbard

Committee Representative Signature
Bryce Hubbard

Employer Representative Employee Representative (Does not have the authority to hire or fire)

Work Experience

Position (most recent first)	Employer / Organization	From (mm/yy)	To (mm/yy)
Jnym Lineman	Okanogan PUD	07/21	current
Gen Foreman	Intren, Brentwood, CA	02/18	07/21
Jnym Lineman	Outside Construction	09/13	01/18

Education History

Name of Training and/or School (most recent first)	Completed Date (mm/yy)	Program of Study	Degree or Certification
Northwest JATC	09/13	Lineman Apprenticeship	Journeyman
Avista Line School	09/09	Pre-Apprentice School	Certificate

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**Apprenticeship Committee
Representative Qualifications**

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Name of Program Okanogan PUD Apprenticeship
--

Committee Representative Name Sean Divis	Committee Representative Signature <i>Sean Divis</i>
---	---

Employer Representative Employee Representative (*Does not have the authority to hire or fire*)

Work Experience

Position (most recent first)	Employer / Organization	From (mm/yy)	To (mm/yy)
Jrnym Lineman	Okanogan PUD	07/19	current

Education History

Name of Training and/or School (most recent first)	Completed Date (mm/yy)	Program of Study	Degree or Certification
Okanogan PUD	07/19	Lineman Apprenticeship	Journeyman

Other Technical Certifications or Licenses Held

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Apprenticeship Committee Representative Qualifications

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Name of Program Okanogan PUD Apprenticeship
--

Committee Representative Name Randy Bird	Committee Representative Signature <i>RSB</i>
---	--

Employer Representative Employee Representative (*Does not have the authority to hire or fire*)

Work Experience

Position (most recent first)	Employer / Organization	From (mm/yy)	To (mm/yy)
Ops Manager	Okanogan PUD	07/17	current
Ops Superinten	Okanogan PUD	05/08	07/17
Jmym Lineman	Okanogan PUD	08/00	05/08

Education History

Name of Training and/or School (most recent first)	Completed Date (mm/yy)	Program of Study	Degree or Certification
Okanogan PUD	08/00	Lineman Apprenticeship	Journeyman
Northwest Lineman College	05/94	Pre-Apprentice School	Certificate

Other Technical Certifications or Licenses Held

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Name of Program
Okanogan PUD Apprenticeship

Committee Representative Name
Justin "JD" Adams

Committee Representative Signature
[Signature]

Employer Representative Employee Representative (Does not have the authority to hire or fire)

Work Experience

Position (most recent first)	Employer / Organization	From (mm/yy)	To (mm/yy)
Ops Superinten	Okanogan PUD	07/18	current
Jmym Lineman	Okanogan PUD	01/10	07/18

Education History

Name of Training and/or School (most recent first)	Completed Date (mm/yy)	Program of Study	Degree or Certification
Okanogan PUD	01/10	Lineman Apprenticeship	Journeyman

Other Technical Certifications or Licenses Held