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

REQUEST FOR APPROVAL OF PROPOSED STANDARDS

L&I apprenticeship coordinator

TO: Washington State Apprenticeship & Training Council

FROM Grand Coulee Power Office

NAME OF PROGRAM STANDARDS

Check appropriate box:
☒ Committee ☐ Plant ☐ OJT

OCCUPATION(S):	HOURS:	SOC #:
Hydro Mechanic	8000	49-9041.00
Power Systems Control Craftsman	8000	49-2095.00

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Authorized Signatures:

Chair: Keith Faul	Approved by: Washington State Apprenticeship & Training Council
Secretary	Secretary of Council
Date: 01 Sep 2016	Date:

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STANDARDS OF APPRENTICESHIP

(Draft 09/12/2016)

adopted by

GRAND COULEE POWER OFFICE APPRENTICESHIP

(sponsor name)

Occupational Objective(s):	SOC#	Term
HYDRO MECHANIC	49-9041.00	8000 HOURS
POWER SYSTEMS CONTROL CRAFTSMAN	49-2095.00	8000 HOURS

APPROVED BY
Washington State Apprenticeship and Training Council
REGISTERED WITH
Apprenticeship Section of Fraud Prevention and Labor Standards Division
Washington State Department Labor and Industries
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Olympia, Washington 98504-4530

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APPROVAL:

Initial Approval

Committee Amended

Standards Amended (review)

Standards Amended (administrative)

By: _____ Chair of Council

By: _____ Secretary of Council

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GRAND COULEE POWER OFFICE APPRENTICESHIP

INTRODUCTORY STATEMENT

The director of the Department of Labor and Industries appointed the Washington State Apprenticeship and Training Council (WSATC) as the regulatory body responsible for developing, administering, and enforcing apprenticeship program standards (Standards) for the operation and success of apprenticeship and training programs in the State of Washington. Apprenticeship program sponsors function, administer, or relinquish authority only with the consent of the WSATC. Furthermore, only apprentices registered with the supervisor or recognized under the terms and conditions of a reciprocal agreement will be recognized by the WSATC. Parties signatory to these standards of apprenticeship declare their purpose and policy is to establish and sponsor an organized system of registered apprenticeship training and education.

These Standards are in conformity and are to be used in conjunction with the Apprenticeship Rules, chapter 296-05 WAC (Washington Administrative Code); Apprenticeship Act, chapter 49.04 RCW (Revised Code of Washington); The National Apprenticeship Act, 29 U.S.C. (United States Code) 50; Apprenticeship Programs, Title 29 Part 29 CFR (Code of Federal Regulations); and Equal Employment Opportunity in Apprenticeship and Training, Title 29 Part 30 CFR which govern employment and training in apprenticeable occupations. They are part of this apprenticeship agreement and bind all signers to compliance with all provisions of registered apprenticeship. Additional information may need to be maintained by the program sponsor that is supplemental to these apprenticeship standards. This information is for purposes of ensuring compliance with decisions of the WSATC and the apprenticeship laws identified above.

If approved by the council, such amendment/s and such changes as adopted by the council shall be binding to all parties. Program sponsors shall notify apprentices and employer training agents (if applicable) of changes when they are adopted by the council. If and when any part of these Standards becomes illegal, as pertains to federal and/or state law, that part and that part alone will become inoperative and null and void, and the Department of Labor and Industries (Department) may adopt language that will conform to applicable law. The remainder of the Standards will remain in full force and effect.

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 the 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 (Optional):

These Apprenticeship Standards have as their objective, the training of Power Systems Control Craftsmen and Hydro Mechanics skilled in all phases of the trade. The Grand Coulee Power Office recognizes that in order to accomplish this, there must be well-developed on-the-job learning combined with related instruction.

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This recognition has resulted in the development of these Apprenticeship Standards. They were developed in accordance with the basic standards recommended by the Washington State Department of Labor, Apprenticeship Section, as a basis from which Joint Apprenticeship Committee can work with the Grand Coulee Power Office to establish an apprenticeship training program that meets the particular needs of these trades.

I. GEOGRAPHIC AREA COVERED:

The sponsor has no authority to conduct training outside of the geographical area covered by these Standards. The sponsor may enter into an agreement [portability agreements – see WAC 296-05-303(4) (g)] with other sponsors for the use of apprentices by training agents that are working outside of their approved geographic area. Also, the WSATC may recognize and approve out-of-state apprenticeship programs and standards if certain conditions are met and the out-of-state sponsoring entity requests it (see WAC 296-05-327). Apprenticeship program sponsors will ensure compliance with the provisions of any agreement recognized by the WSATC.

The area covered by these Standards shall be the entire operation area of the Grand Coulee Dam in Grand Coulee, Washington; and the Hungry Horse Dam and Powerplant, in Hungry Horse, Montana.

These are areas under the operational control of The United State Department of the Interior, Bureau of Reclamation.

Applicants and apprentices please note that while the State of Washington has no responsibility or authority in the State of Montana, the JATC will apply the same standards and guidelines to apprentices registered in the program while working there.

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II. MINIMUM QUALIFICATIONS:

Minimum qualifications must be clearly stated and applied in a nondiscriminatory manner [see WAC 296-05-316(17)].

Age: **18 years minimum.**

Education: **High School graduate or the equivalent.**

Physical: **Must have the ability to perform the work of the trade.**

Testing: **Must exceed minimum passing score on Office of Personnel Management's (OPM) Wage Grade Performance Potential Assessment.**

Other: **Must be a U.S. Citizen.**

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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 Procedures (see Part D of 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, color, religion, creed, national origin, age, sexual orientation, marital status, veteran or military status, the presence of a disability or any other characteristic protected 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 (chapter 296-05 WAC) and Title 29, Part 30 of the Code of Federal Regulations.

A. Selection Procedures:

Exempt per WAC 296-05-405(1) (b), per Board of Commissioner Rules.

B. Equal Employment Opportunity Plan:

Exempt per WAC 296-05-405(1) (b), per Board of Commissioner Rules.

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

IV. TERM OF APPRENTICESHIP:

The minimum term of apprenticeship must not be less than 2000 hours of reasonably continuous employment in each occupation identified in these Standards. The term of apprenticeship must be stated in hours of employment [WAC 296-05-316(1)].

A. The term of apprenticeship shall be 8000 hours of reasonably continuous employment for:

1. **Hydro Mechanic**
2. **Power System Control Craftsman**

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V. INITIAL PROBATIONARY PERIOD:

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All apprentices are subject to an initial probationary period, stated in hours or months of employment for which they receive full credit toward completion of apprenticeship. Advance credit/standing will not reduce the initial probationary period. The initial probationary period [WAC 296-05-316(22)]:

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1. Is the period following the apprentice's registration into the program and during which the apprentice's appeal rights are impaired. The initial probation must not exceed twenty percent (20%) of the term of apprenticeship or one year from date of registration, unless an exemption by the WSATC has been granted for longer probationary periods as specified by Civil Service or law.

2. Is the period that 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 of the apprenticeship agreement may terminate the agreement without a hearing or stated cause. An appeal process is available to apprentices who have completed the initial probationary period.

A. All apprentices employed in accordance with these Standards (8000 hours) shall be subject to an initial probationary period not exceeding the first 1600 hours of employment.

VI. RATIO OF APPRENTICES TO JOURNEY LEVEL WORKERS:

Supervision is the necessary education, assistance, and control provided by a journey-level employee that is on the same job site at least seventy-five percent of each working day, unless otherwise approved by the WSATC. The sponsor will assure that apprentices are under the supervision of competent and qualified journey-level workers on the job who are responsible for the work being performed, to ensure safety and training in all phases of the work. Apprentices will work the same hours as journey-level workers, EXCEPT where such hours may interfere with related/supplemental instruction [WAC 296-05-316(5)].

There shall not be more than one (1) apprentice to one (1) journey-level worker within the workforce.

VII. APPRENTICE WAGES AND WAGE PROGRESSION:

The apprentice will be paid a progressively increasing schedule of wages based on specified percentages of journey-level wage consistent with skills acquired [WAC 296-05-316(27)]. These may be indicated in hours or monthly periods set by the sponsor. The entry wage will not be less than the minimum wage prescribed by the Fair Labor Standards Act, where applicable, unless a higher wage is required by other applicable federal law, state law, respective regulations, or by collective bargaining agreement.

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The sponsor may accelerate, by an evaluation process, the advancement of apprentices who demonstrate abilities and mastery of the occupation to the level for which they are qualified. When the apprentice is granted advanced standing the sponsor must notify the employer/training agent of the appropriate wage per the wage progression schedule specified in these Standards.

If the Apprentice starts at a wage rate above the beginning step, the Apprentice will not be promoted to their next step until they have fulfilled the requirements for that step.

A. For Power System Control Craftsman and Hydro Mechanic

Step	Number of hours/months	Percentage of journey-level rate
1	**0000 – 1000 hours**	**60%**
2	**1001 – 2000 hours**	**65%**
3	**2001 – 3000 hours**	**70%**
4	**3001 – 4000 hours**	**75%**
5	**4001 – 5000 hours**	**80%**
6	**5001 – 6000 hours**	**85%**
7	**6001 – 7000 hours**	**90%**
8	**7001 - 8000 hours**	**95%**

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VIII. WORK PROCESSES:

The apprentice shall receive on the job instruction and 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.

Employers/training agents shall only use registered apprentices to perform the work processes as stated in this section. [WAC 296-05-303(5) (f)]

A. Hydro Mechanic: **APPROXIMATE HOURS**

1. **Orientation.....60**
   - **(a) Organization**
   - **(b) Administration**
   - **(c) Records and Reports**
2. **Safety.....440**
   - **(a) Attend safety meetings**
   - **(b) LOTO Procedures**
   - **(c) Inspection and use of safety equipment**
   - **(d) First Aid training**
   - **(e) All other OSHA or Reclamation required training**
3. **Job Orders, Plans and Blueprints.....500**
   - **(a) Work Order System**
   - **(b) Computerized Maintenance Management System(MAXIMO)**
   - **(c) Print Reading**
   - **(d) Standard Operating Procedures**
4. **Hydromechanic Practices.....7000**
   - **(a) Common Hand and shop tools use and maintenance.....200**
   - **(b) Powerplant equipment preventative maintenance.....1000-1500**
   - **(c) Machining.....1000-1500**
   - **(d) Pipefitting.....1000-1500**
   - **(e) Welding.....1000-1500**
   - **(f) Rigging.....500-1000**
   - **(g) Crane Operating.....80-500**
   - **(h) Structural.....500-1000**

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Total Hours **8000**

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B. Power Systems Control Craftsman	APPROXIMATE HOURS
1. Safety and Orientation	1000
2. High Voltage Insulation Testing, Procedures and Practices, and Safety Requirements	100
3. Use, Testing, Calibration, Repair Of Testing and Measuring Equipment	200
4. Testing, Repair, Alignment, and Operation of Communications Equipment, Power Supplies, and related Equipment	1200
5. Automation, PLC, Computer Systems, and Related Equipment	1200
6. Metering, Instrument Transformers, and Related Equipment	1200
7. Testing, Repair, and Calibration of Protective Relays, Data Systems, and Protection Systems	1600
8. Telemetering, Synchronizing, Voltage Regulation, Governors, and Unit Control	1200
9. Administrative	300
TOTAL HOURS:	**8000**

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IX. RELATED/SUPPLEMENTAL INSTRUCTION:

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

The sponsor and training agent must provide for instruction of the apprentice during the related/supplemental instruction in safe and healthful work practices in compliance with the Washington Industrial Safety and Health Act, and applicable federal and state regulations.

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Clock hours of actual attendance by the apprentice in related/supplemental instruction classes at the community/technical college or other approved training locations shall be reported to the Department on a quarterly basis. Such reports will clearly identify paid versus unpaid and supervised versus unsupervised RSI time for industrial insurance purposes.

For industrial insurance purposes, the WSATC will be considered as the employer should any supervised apprentice, not being paid to attend RSI, sustain an injury while participating in related/supplemental classroom activity, or other directly related activity outside the classroom. The activities must be at the direction of the instructor.

In case of failure on the part of any apprentice to fulfill the obligation to attend RSI, the sponsor has authority to take disciplinary action (see Administrative/Disciplinary Procedures section).

The methods of related/supplemental training must consist of one or more of the following (please indicate by checking those that apply):

- **(X)** Supervised field trips
- **( )** Approved training seminars (specify)
- **(X)** A combination of home study and approved correspondence courses (specify): **BSC National Energy Center of Excellence**
- **(X)** State Community/Technical College
- **(X)** Private Technical/Vocational College
- **( )** Training trust
- **(X)** Other (specify): **Other classes and schools as approved by the Committee**

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Minimum RSI hours per year defined per the following (see WAC 296-05-316(6)):

307.5 hours per year for Hydro Mechanic
382.5 hours per year for Power System Control Craftsman.

(X) 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.*

Additional Information:

Hydro Mechanic Apprentices will receive a total of 1,230 hours over the course of their apprenticeship.

Power system Control Craftsman apprentices will receive a total of 1,530 hours over the course of their apprenticeship.

Apprentices can be directed to take additional RSI hours by the Committee as needed.

X. ADMINISTRATIVE/DISCIPLINARY PROCEDURES:

Sponsors may include in this section requirements and expectations of the apprentices and training agents and an explanation of disciplinary actions that may be imposed for noncompliance. The sponsor has the following disciplinary procedures that they may impose: Disciplinary Probation, Suspension, or Cancellation.

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Disciplinary Probation: A time assessed when the apprentice's progress is not satisfactory. During this time the program sponsor may withhold periodic wage advancements, suspend or cancel the apprenticeship agreement, or take further disciplinary action. A disciplinary probation may only be assessed after the initial probation is completed. During the disciplinary probation, the apprentice has the right to file an appeal of the sponsor's action with the WSATC (as described in WAC 296-05-009).

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Suspension: A suspension is a temporary interruption in progress of an individual's apprenticeship program that may result in the cancellation of the Apprenticeship Agreement. Could include temporarily not being allowed to work, go to school or take part in any activity related to the Apprenticeship Program until such time as the sponsor takes further action.

Cancellation: Refers to the termination of an apprenticeship agreement at the request of the apprentice, supervisor, or sponsor. [as described in WAC 296-05-316(22)].

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A. General Procedures

1. **CONTINUED SERVICE AGREEMENT**

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a. **Apprentices assigned to training will sign a continued service agreement prior assignment to training. The apprentice must continue in the service of the government equal to three times the length of the apprentice training period. Failure to continue in service may result in recovery of training costs, except pay or other compensation, if the employee voluntarily separates from Government service.**

b. **In the event the employer is unable to fulfill its obligation under the apprenticeship agreement, the apprentice may be transferred to another Government employer operating the same program.**

c. **Such transfers are subject to the consent of the apprentice and of the Grand Coulee Power Office. The apprentice must receive credit from the new Government employer for the training already satisfactorily completed.**

2. **RESPONSIBILITIES OF THE APPRENTICE**

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Apprentices, having read these Standards and signed an Apprenticeship Agreement with, agree to all the terms and conditions contained therein and agree to abide by the JAC rules and policies, including any amendments, serve such time, perform such manual training, and study such subjects as the Committee may deem necessary to become a skilled journeyman.

In signing the Apprenticeship Agreement, apprentices assume the following responsibilities and obligations under the apprenticeship program:

a. **Perform diligently and faithfully the work of the occupation and other pertinent duties assigned by the JAC and the employer in accordance with the provisions of these Standards.**

b. **Respect the property of the employer and abide by the working rules and regulations of the employer, union and the JAC.**

c. **Attend and satisfactorily complete the required hours in the On The Job Learning (OJL) and in related instruction in subjects related to the occupation as provided under these Standards.**

d. **Maintain and make available such records of work experience and training received on the job and in related instruction as may be required by the JAC.**

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e. Develop and practice safe working habits and work in such a manner as to assure his/her personal safety and that of other workers.

f. Work for the employer to whom the apprentice is assigned for the completion of apprenticeship, unless reassigned to another employer or the Apprenticeship Agreement is terminated by the JAC.

g. The apprentice will be provided with a copy of the written rules and policies and will sign an acknowledgment receipt of same. This procedure will be followed whenever revisions or modifications are made to the rules and policies

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B. Local Apprenticeship Committee Policies

NONE

C. Complaint and Appeal Procedures:

All registered programs must establish procedures explaining the program's complaint review process. Complaints that involve matters covered by a collective bargaining agreement are not subject to the complaint review procedures in this section.

Complaint (after initial probation completed) – WAC 296-05-009 and 296-05-316(22)

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Prior to: 20 calendar days of intention of disciplinary action by a sponsor

- Sponsors must notify the apprentice in writing of action to be taken
- Must specify the reason(s) for discipline, suspension, or cancellation
- Decision will become effective immediately
- Written reason(s) for such action must be sent to the apprentice

Within: 30 calendar days request for reconsideration from the sponsor

- Apprentice to request sponsor to reconsider their action

Within: 30 calendar days of apprentice's request for reconsideration

- Sponsor must provide written notification of their final decision

If apprentice chooses to pursue the complaint further:

Within: 30 calendar days of final action

- Apprentice must submit the complaint in writing to the Department
- Must describe the controversy and provide any backup information
- Apprentice must also provide this information to the local sponsor

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Within: 30 business days for supervisor to complete investigation

- If no settlement is agreed upon during investigation, then supervisor must issue a written decision resolving the controversy when the investigation is concluded

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If the apprentice or sponsor disputes supervisor decision:

Within: 30 calendar days of supervisor's decision, request for WSATC hearing

- Request must be in writing
- Must specify reasons supporting the request
- Request and supporting documents must be given to all parties
- WSATC must conduct the hearing in conjunction with the regular quarterly meeting

Within: 30 calendar days after hearing

- WSATC to issue written decision

XI. COMMITTEE – RESPONSIBILITIES AND COMPOSITION

NOTE: The following is an overview of the requirements associated with administering an apprenticeship committee and/or 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. A committee is responsible for the day-to-day operations of the apprenticeship program and they must be knowledgeable in the process of apprenticeship and/or the application of chapter 49.04 RCW and chapter 296-05 WAC. Sponsors must develop procedures for:

A. Committee Operations (WAC 296-05-316): (Not applicable for Plant Programs) Convene meetings at least three times per year of the program sponsor and apprenticeship committee attended by a quorum of committee members as defined in the approved Standards. If the committee does not indicate its definition of quorum, the interpretation will be "50% plus 1" of the approved committee members. Conference call meetings may be conducted in lieu of regular meetings but must not exceed the number of attended meetings and no disciplinary action can be taken during conference call meetings.

B. Program Operations (Chapter 296-05 WAC - Part C & D):

1. The program sponsor will record and maintain records pertaining to the administration of the apprenticeship program and make them available to the WSATC or Department on request.

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Records required by WAC 296-05-400 through 455 (see Part D of chapter 296-05 WAC) will be maintained for five (5) years; all other records will be maintained for three (3) years.

2. The sponsor will submit to the Department through the assigned state apprenticeship consultant the following list:

   Forms are available on line at http://www.lni.wa.gov/TradesLicensing/Apprenticeship/FormPub/default.asp or from your assigned apprenticeship consultant.

   - Apprenticeship Agreements – within first 30 days of employment
   - Authorization of Signature forms - as necessary
   - Approved Training Agent Agreements (sponsor approving or canceling) – within 30 days
   - Minutes of Apprenticeship Committee Meetings – within 30 days of meeting (not required for Plant program)
   - Request for Change of Status - Apprenticeship/Training Agreement and Training Agents forms – within 30 days of action by sponsor
   - Journey Level Wage Rate – annually, or whenever changed
   - Request for Revision of Standards - as necessary
   - Request for Revision of Committee - as necessary
   - Related Supplemental Instruction (RSI) Hours Reports (Quarterly):
     1st quarter: January through March, by April 10
     2nd quarter: April through June, by July 10
     3rd quarter: July through September, by October 10
     4th quarter: October through December, by January 10
   - On-the-Job Work Hours Reports (bi-annual)
     1st half: January through June, by July 30
     2nd half: July through December, by January 31

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3. The program sponsor will adopt, as necessary, local program rules or policies to administer the apprenticeship program in compliance with these Standards that must be submitted for Department approval and updating these Standards. The apprenticeship program manager may administratively approve requests for revisions in the following areas of the Standards:
   - Program name
   - Sponsor's introductory statement (if applicable)
   - Section III: Conduct of Program Under Washington Equal Employment Opportunity Plan
   - Section VII: Apprentice Wages and Wage Progression
   - Section IX: Related/Supplemental Instruction
   - Section XI: Committee - Responsibilities and Composition (including opening statements)
   - Section XII: Subcommittees
   - Section XIII: Training Director/Coordinator

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4. The sponsor will utilize competent instructors as defined in WAC 296-05-003 for related/supplemental instruction. 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 the related/supplemental instruction 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.

   The Department must be notified within 30 days of program approval, of all requests for disposition or modification of agreements, with a copy of the minutes approving the changes, which may be:
   - Certificate of completion
   - Additional credit
   - Suspension (i.e. military service or other)
   - Reinstatement
   - Cancellation and/or
   - Corrections

2. Rotate apprentices in the various processes of the skilled occupation to ensure the apprentice is trained to be a competent journey-level worker.

3. 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.

4. The sponsor has the obligation and responsibility to provide, insofar as possible, 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 sponsor 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 sponsor or 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.

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5. 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.

6. Hear and adjust all complaints of violations of apprenticeship agreements.

7. Upon successful completion of apprenticeship, as provided in these Standards, and passing the examination that the sponsor may require, the sponsor will recommend that the WSATC award a Certificate of Completion of Apprenticeship. The program will make an official presentation to the apprentice that has successfully completed his/her term of apprenticeship.

D. Training Agent Management:

1. Offer training opportunities on an equal basis to all employers and apprentices. Grant equal treatment and opportunity for all apprentices through reasonable working and training conditions and apply those conditions to all apprentices uniformly. Provide training at a cost equivalent to that incurred by currently participating employers and apprentices. Not require an employer to sign a collective bargaining agreement as a condition of participation.

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2. Determine the adequacy of an employer to furnish proper on-the-job training in accordance with the provisions of these Standards. Require all employers requesting approved training agent status to complete an approved training agent agreement and comply with all federal and state apprenticeship laws and the appropriate apprenticeship Standards.

3. Submit approved training agent agreements to the Department with a copy of the agreement and/or the list of approved training agents within thirty days of committee approval. Submit rescinded approved training agent agreements and/or the list of approved training agents to the Department within thirty days of said action.

E. Composition of Committee: (see WAC 296-05-313)

Apprenticeship committees must be composed of an equal number of management and non-management representatives composed of at least four members but no more than twelve. If the committee does not indicate its definition of a quorum, the interpretation will be "50% plus 1" of the approved committee members.

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; EXCEPT, this does not apply where the Registration Agency represents the apprentice(s).

For plant programs the WSATC or the Department designee will act as the employee representative.

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The Grand Coulee Power Office Apprenticeship Committee shall be composed of twelve (12) members; six (6) members representing the "The United States Department of the Interior Bureau of Reclamation" and six (6) members representing the appropriate Union, selected by the groups they represent.

Quorum: **For the purpose of the business of the Apprenticeship Committee a quorum will consist of a minimum of 50% of the members of the committee.**

Program type administered by the committee: **Individual Joint**

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The employer representatives shall be: (Need to add addresses and who is the secretary and chair)

Josh Bessette, Secretary **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**	**Stacey Stanley** **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**
Daniel Booker **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**	**Rod Whitinger** **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**
Dave Crockett **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**	**Douglas K. Pickel** **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**

The employee representatives shall be:

Keith Faul, Chair **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**	**Steven McFarling** **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**
David Hansen **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**	**Nate Stout** **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**
David Cartwright **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**	**Jason Schimek** **Hwy 155 PO Box 620** **Grand Coulee, WA 99133-0620**

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 approved by the main committee.

NONE

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.

Josh Bessette, Coordinator
Grand Coulee Power Office
PO Box 620
Grand Coulee, WA 99133-0620

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

Journey Level Wage Rate

From which apprentices' wages rates are computed

TO: Washington State Apprenticeship & Training Council

From Grand Coulee Power Office Apprenticeship
(NAME OF STANDARDS)

Occupations	County(s)	Journey Level Wage Rate	Effective Date:
Hydro Mechanic	Grand Coulee Dam, Grand Coulee Washington	$42.13	Jan. 2016
Power Systems Control Craftsman	Grand Coulee Dam, Grand Coulee Washington	$48.66	Jan. 2016

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Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

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Program Sponsor: **Grand Coulee Power Office Apprenticeship**	
Skilled Occupational Objective: **Hydro Mechanic**	
Term/OJT Hours: 8000 hours	Total RSI Hours: 1230
Training Provider: TPC Trainco	

- 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 compliance with WISHA and applicable federal and state regulations.

Signature of Program Sponsor	Joshua J. Bessette Print Name

- By the signature placed below, the **training provider** assures that:
  1. The RSI will be conducted by instructors who meet the qualifications of "competent instructor" as described in WAC 296-05-003.
     a. Has demonstrated a satisfactory employment performance in his/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.
  2. If using alternative forms of instruction, such as correspondence, electronic media, or other self-study, such instruction is clearly defined.

Signature of Training Provider	Joshua J. Bessette Print Name
Apprenticeship Coordinator Title	GCPO Organization

(If additional training providers, please provide information and signatures on next page.)

SBCTC Program Administrator has reviewed RSI plan and recommendations of the Trade Committee.

Signature of SBCTC Program Administrator	Print Name	Date

☐ SBCTC recommends approval ☐ SBCTC recommends return to sponsor

F100-519-000 RSI - Apprenticeship Related Supplemental Instruction (RSI) Plan Review Glossary of term

F100-521-000 Apprenticeship Related Supplemental Instruction (RSI) Plan Review Criteria

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Additional training provider (if necessary)

Signature of Training Provider	Print Name
Title	Organization

Additional training provider (if necessary)

Signature of Training Provider	Print Name
Title	Organization

Additional training provider (if necessary)

Signature of Training Provider	Print Name
Title	Organization

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Program Sponsor: **Grand Coulee Power Office Apprenticeship**
Skilled Occupational Objective: **Hydro Mechanic**

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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.

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: Fundamentals	Planned Hours: 214
Mode of Instruction (please check all that apply): ☒ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco/GCPO- *TPC provides on-line curriculum, on-site support provided by GCPO	
Description of element/course: Blueprints and print reading, metals and nonmetals in the plant, hand and power tools, health and safety	

Element/course: Machine Tool Workbook	Planned Hours: 12
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: Measurements and work planning, cutting tools and cutting	

Element/course: Mechanical Systems	Planned Hours: 136
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: Basic mechanics, lubricants and lubrication, bearings, pumps, piping systems basic hydraulics	

Element/course: Machine Shop Practices	Planned Hours: 86
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: Machine Shop Practices, Turning Operations, Shaping Operations, Job Analysis, Lathe Machining Work in a Chuck, Basic Milling Procedures, Indexed Milling Procedures, Multiple-Machine Procedures	

Element/course: Rigging/Equipment Installation	Planned Hours: 40
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	

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Description of element/course:
Industrial Rigging Principles and Practices, equipment installation

Element/course: Mechanical Maintenance	Planned Hours: 80
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: Mechanical Drive Maintenance, Mechanical and Fluid Drive Systems, Bearing and Shaft Seal Maintenance, Pump Installation and Maintenance, Maintenance Pipefitting Tubing and Hose System Maintenance, Valve Maintenance and Piping System Protection	

Element/course: Building and Grounds Maintenance	Planned Hours: 54
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: Introduction to Carpentry, Constructing the Building Shell, Finishing the Building Interior Structural Painting, Flat Roof Maintenance, Plumbing Systems Maintenance, Locks and Key Systems, Landscaping Maintenance	

Element/course: Welding	Planned Hours: 80
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: Welding Principles, Oxyfuel Operations, Arc Welding Operations	

Element/course: HVAC	Planned Hours: 146
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: The Refrigeration Cycle, Refrigerants and Refrigerant Oils, Compressors Evaporators and Metering Devices, Condensers and Cooling Towers, Piping Control Systems, Air-Handling Systems, System Troubleshooting, Absorption Chillers, Heat Pumps, Heating System Basics, Heating System Equipment	

Element/course: Hydropower 101	Planned Hours: 20
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: Hydroelectric Power Plant Fundamentals, Hydroelectric Dam Fundamentals	

Element/course: Science	Planned Hours: 30
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study	

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Provided by: TPC Trainco*
Description of element/course: Math, Physics Mechanics, Fluids, Heat Transfer, Fundamentals of Chemistry, Properties of Materials

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Element/course: Mechanical Theory	Planned Hours: 72
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: Mechanical Print Reading, Machines, Friction and Bearings, Machines, Lubricants and Lubrication Theory, Hydraulics, Rigging	

Element/course: Mechanical Components	Planned Hours: 130
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: Pumps, Compressors, Piping Systems, Gates and Valves, Hydraulic Turbines, Hydraulic Governors, Intakes & Conduits, Cranes, Emergency Generators	

Element/course: Electrical Theory	Planned Hours: 60
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: Electrical print reading, AC/DC circuits, single phase and 3 phase circuits	

Element/course: Electrical Components	Planned Hours: 60
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	
Description of element/course: AC generators, transformers, breakers, and switches	

Element/course: Operations/Maintenance	Planned Hours: 10
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☒ Self-study Provided by: TPC Trainco*	RECEIVED BY L&I AC: 9-2-16 MT
Description of element/course: Fire protection systems	E-MAIL RECEIVED BY CENTRAL OFFICE: 9-1-16 KR

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Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Sponsor: **Grand Coulee Power Office Apprenticeship**		
Skilled Occupational Objective: **Power System Control Craftsman**		
Term/OJT Hours: 8000 hours	Total RSI Hours:	1530
Training Provider: Bismarck State College-NECE		

- 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 compliance with WISHA and applicable federal and state regulations.

Signature of Program Sponsor	Print Name
	Joshua J. Bessette

- By the signature placed below, the **training provider** assures that:
  1. The RSI will be conducted by instructors who meet the qualifications of "competent instructor" as described in WAC 296-05-003.
     a. Has demonstrated a satisfactory employment performance in his/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.
  2. If using alternative forms of instruction, such as correspondence, electronic media, or other self-study, such instruction is clearly defined.

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Signature of Training Provider	Print Name	
	Alicia Unde	
Title	**Organization**	E-MAIL RECEIVED BY CENTRAL OFFICE:
Program manager	Bismarck State College	9-7-16 KR

(If additional training providers, please provide information and signatures on next page.)

SBCTC Program Administrator has reviewed RSI plan and recommendations of the Trade Committee.

Signature of SBCTC Program Administrator	Print Name	Date

☐ SBCTC recommends approval ☐ SBCTC recommends return to sponsor

F100-519-000 RSI - Apprenticeship Related Supplemental Instruction (RSI) Plan Review Glossary of term

F100-521-000 Apprenticeship Related Supplemental Instruction (RSI) Plan Review Criteria

Additional training provider (if necessary)

Signature of Training Provider	Print Name
Title	Organization

Additional training provider (if necessary)

Signature of Training Provider	Print Name
Title	Organization

Additional training provider (if necessary)

Signature of Training Provider	Print Name
Title	Organization

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Program Sponsor: **Grand Coulee Power Office Apprenticeship**
Skilled Occupational Objective: **Power System Control Craftsman**

NOTE: The description of each element must be in sufficient detail to provide adequate information for review by the SBCTC and review committee.

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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: ELEC 100 – Direct Current Analysis (1st Year)	Planned Hours: 72
Mode of Instruction (please check all that apply): ☒ Classroom ☐ Lab ☐ On-line ☐ Self-study Provided by: Bismarck State College-	
Description of element/course: The study of the concepts of current, voltage and resistance through problem solving and schematic drawings as they apply to DC circuit analysis. Concurrent registration in, or previous successful completion of, the associated lab is required.	

Element/course: ELEC 100 Lab – Direct Current Analysis LAB (1st Year)	Planned Hours: 18
Mode of Instruction (please check all that apply): ☐ Classroom ☒ Lab ☐ On-line ☐ Self-study Provided by: BSC	
Description of element/course: The lab portion of the course is a lab/lecture, which provides hands-on verification of the theory presented in class. Concurrent registration in, or previous successful completion of the associated lecture is required.	

Element/course: ELEC 118 – Solid State Devices	Planned Hours: 72
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC	
Description of element/course: The study of semiconductor physics, fundamentals of semiconductors, power supplies, transistors, characteristics of biasing circuits, amplifier properties, and FET characteristics and applications. Concurrent registration in, or previous successful completion of, the associated lab is required	

Element/course: ELEC 118 Lab – Solid State Devices Lab (1st Year)	Planned Hours: 18
Mode of Instruction (please check all that apply): ☒ Classroom ☒ Lab ☐ On-line ☐ Self-study Provided by: BSC	
Description of element/course: The lab portion of the course is a lab/lecture, which provides hands-on verification of the theory presented in class. Concurrent registration in, or previous successful completion of the associated lecture is required.	

Element/course: ELEC 114 - Digital Electronics (1st Year)	Planned Hours: 54
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC	RECEIVED BY L&I AC: 9-2-16 MT

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Description of element/course:
The study of number systems, logic gates, Boolean algebra, combination logic circuits. Concurrent registration in, or previous successful completion of, the associated lab is required.

Element/course: ELEC 114 LAB - Digital Electronics Lab (1st Year)	Planned Hours: 18

Mode of Instruction (please check all that apply):
☐ Classroom ☒ Lab ☐ On-line ☐ Self-study
Provided by: BSC

Description of element/course:
The lab portion of the course is a lab/lecture, which provides hands-on verification of the theory presented in class. Concurrent registration in, or previous successful completion of the associated lecture is required.

Element/course: ELPW 105 – Electrical System Fundamentals (1st Year)	Planned Hours: 54

Mode of Instruction (please check all that apply):
☐ Classroom ☐ Lab ☒ On-line ☐ Self-study
Provided by: BSC

Description of element/course:
This course will begin with a look at several types of power generation stations, such as large fossil fired power plants, hydroelectric power plants, gas turbine and combined cycle generating stations and finally a brief look at wind generation. After the introduction to power generation, students will study how the power is delivered from the power station to the consumer. This course will cover transmission lines and related components within a typical transmission system, such as step-up and step-down transformers, circuit breakers, disconnects and protective relaying.

Element/course: ELEC 120 - AC Analysis (1st Year)	Planned Hours: 72

Mode of Instruction (please check all that apply):
☐ Classroom ☐ Lab ☒ On-line ☐ Self-study
Provided by: BSC

Description of element/course:
Prerequisites: ELEC 100, 100L, 114, 114L, 118, and 118L or equivalent and approval of instructor. The study of dB, complex numbers, RC, RI, and RLC circuits, resonance, and passive and active filters. Concurrent registration in, or previous successful completion of, the associated lab is required.

Element/course: ELEC 120 Lab - AC Analysis Lab (1st Year)	Planned Hours: 18

Mode of Instruction (please check all that apply):
☐ Classroom ☒ Lab ☐ On-line ☐ Self-study
Provided by: BSC

Description of element/course:
The lab portion of the course is a lab/lecture, which provides hands-on verification of the theory, presented in class. Concurrent registration in, or previous successful completion of the associated lecture is required

Element/course: ELEC 130 - Active Devices (1st Year)	Planned Hours: 72

Mode of Instruction (please check all that apply):
☐ Classroom ☐ Lab ☒ On-line ☐ Self-study
Provided by: BSC

Description of element/course:
Prerequisites: ELEC 100, 100L, 114, 114L, 118, and 118L or equivalent and approval of instructor. The study of various electronic devices and circuitry including; Thyristors, Operational Amplifiers,

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and Regulated Power supplies. Concurrent registration in, or previous successful completion of, the associated lab is required.

Element/course: ELEC 130 LAB - Active Devices Lab (1st Year)	Planned Hours: 18
Mode of Instruction (please check all that apply): ☐ Classroom ☒ Lab ☐ On-line ☐ Self-study Provided by: BSC	
Description of element/course: The lab portion of the course a lab/lecture, which provides hands-on verification of the theory, presented in class. Concurrent registration in, or previous successful completion of the associated lecture is required.	

Element/course: ELEC 115 – Digital Electronics II (1st Year)	Planned Hours: 54
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC	
Description of element/course: Prerequisites: ELEC 100, 100L, 114, 114L, 118, and 118L or equivalent and approval of instructor. The study of arithmetic circuits, code converters, decoders, encoders, multiplexers, demultiplexers, multivibrators, and flip-flops. Concurrent registration in, or previous successful completion of, the associated lab is required.	

Element/course: ELEC 115 Lab – Digital Electronics II Lab (1st Year)	Planned Hours: 18
Mode of Instruction (please check all that apply): ☐ Classroom ☒ Lab ☐ On-line ☐ Self-study Provided by: BSC	
Description of element/course: The lab portion of the course is a lab/lecture, which provide hands-on verification of the theory presented in class. Concurrent registration in, or previous successful completion of the associated lecture is required	

Element/course: ICTL 215 – Instrument Drawings & Documentation (2nd Year)	Planned Hours: 72
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC	
Description of element/course: Prerequisite: Completion of first year Electronics/Telecommunications Technology Program or instructor's approval. Topics covers in this course include plant terminology, piping and industrial diagrams (P&ID), electrical and wiring diagrams, graphs, charts, documentation of settings and record keeping, calibration practices and standards, flow, pressure, position, level, temperature and analytical measurements. The use and care of test equipment is also covered.	

Element/course: ICTL 215 Lab – Instrument Drawings & Documentation Lab (2nd Year)	Planned Hours: 18
Mode of Instruction (please check all that apply): ☐ Classroom ☒ Lab ☐ On-line ☐ Self-study Provided by: BSC	
Description of element/course:	

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Prerequisite: Completion of first year Electronics/Telecommunications Technology Program.
Co-requisite: ICTL 215 or equivalent and instructor's approval.
The lab portion of the course is a lab/lecture, which provides hands-on verification of the theory presented in class. This lab is only available on campus.

Element/course: ICTL 225 – Input and Output Devices (2nd Year)	Planned Hours: 72
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC	
Description of element/course: Prerequisite: Completion of first year Electronics/Telecommunications Technology Program or instructor's approval. In this course students will study measurement sensors such as proximity sensors and switches, motion detectors, analog and smart transmitters, and temperature devices. Other topics include valves and their types, valve positioners, current to pneumatic (I/P) converters, electric drives and motor starters, dampers and linkages.	

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Element/course: ICTL 225 Lab – Input and Output Devices Lab (2nd Year)	Planned Hours: 18
Mode of Instruction (please check all that apply): ☒ Classroom ☒ Lab ☐ On-line ☐ Self-study Provided by: BSC	
Description of element/course: Prerequisite: Completion of first year Electronics/Telecommunications Technology Program. Co-requisite: ICTL 225 or equivalent and instructors approval. The lab portion of the course is a lab/lecture, which provides hands-on verification of the theory presented in class. This lab is only available on campus.	

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Element/course: ICTL 235 – Motors and Controllers (2nd Year)	Planned Hours: 72
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC	
Description of element/course: Prerequisite: Completion of the third semester of the I&C program or instructor's approval. Topics of study include types of AC and DC motors, stepper motors, motor theory, and types of motor controls, three phase power, Y and delta configurations, variable speed drives (variable frequency and variable DC), motor and other electrical equipment protection (breakers and overloads).	

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Element/course: ICTL 235 Lab – Motors and Controllers Lab (2nd Year)	Planned Hours: 18
Mode of Instruction (please check all that apply): ☒ Classroom ☒ Lab ☐ On-line ☐ Self-study Provided by: BSC	
Description of element/course: Prerequisite: Completion of the third semester of the I&C program or instructor's approval. Co-requisite: ICTL 235 or equivalent and instructors approval. The lab portion of the course is a lab/lecture, which provides hands-on verification of the theory presented in class. This lab is only available on campus.	

Element/course: ICTL 245 – Controls (2nd Year)	Planned Hours: 72
Mode of Instruction (please check all that apply):	

☐ Classroom	☐ Lab	☒ On-line	☐ Self-study	
Provided by: BSC				
Description of element/course:				
Prerequisite: Completion of the third semester of the I&C program or instructor's approval. The student will gain a basic understanding of major components of the following types of controllers: programmable logic controllers (PLC), personal computers (PC), distributive control system (DCS). Programming ladder logic, relay logic, function block control logic, relay logic, digital communications, networking, common and typical controller I/O types will be studied.				

Element/course: ICTL 245 Lab – Controls Lab(2nd Year)		Planned Hours:	18
Mode of Instruction (please check all that apply): ☐ Classroom ☒ Lab ☐ On-line ☐ Self-study			
Provided by: BSC			
Description of element/course:			
Prerequisite: Completion of the third semester of the I&C program or instructor's approval. Co-requisite: ICTL 245 or equivalent and instructors approval. The lab portion of the course is a lab/lecture, which provides hands-on verification of the theory presented in class. This lab is only available on campus.			

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Element/course: ICTL 255 – Automation Overview (2nd Year)		Planned Hours:	72
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☐ On-line ☐ Self-study			
Provided by: BSC			
Description of element/course:			
Prerequisite: Completion of the third semester of the I&C program or instructor's approval. Students will learn to demonstrate a process control loop by building, commissioning, troubleshooting and operating a simulated control loop using interlocking logic and control processor algorithms including proportion, integral and derivative (PID) and loop tuning. Students will participate in tours of different facilities such as power plants, refineries, manufacturing facilities, coal gasification plant and food processing plants			

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Element/course: ICTL 255 Lab – Automation Overview Lab (2nd Year)		Planned Hours:	18
Mode of Instruction (please check all that apply): ☐ Classroom ☒ Lab ☐ On-line ☐ Self-study			
Provided by: BSC			
Description of element/course:			
Prerequisite: Completion of the third semester of the I&C program or instructor's approval. Co-requisite: ICTL 255 or equivalent and instructors approval. The lab portion of the course is a lab/lecture, which provides hands-on verification of the theory presented in class. This lab is only available on campus.			

Element/course: ETST 250 – Electrical Generation Theories (3rd Year)		Planned Hours:	72
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study			
Provided by: BSC			
Description of element/course:			
Students will learn the design and construction of large electrical generators. Students will study the sources of voltage and the design and types of A.C. and D.C. generators and related auxiliary equipment. Students will also study the design and operation of A.C. and D.C. motors			

Element/course:	ETST 354 – System Elements I – Substations (3rd Year)	Planned Hours:	54

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Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC
Description of element/course: This course is designed to cover the basic equipment found in switchyards and substations. Also included are the functions and types of substations, related transmission and distribution systems, and how each system is tied to one another.

Element/course:	ETST 256 System Elements III – Transformers (3rd Year)	Planned Hours:	54
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC			
Description of element/course: This course builds upon System Elements I by introducing basic diagrams, transformers, switching and basic substation safety and inspection. Topics covered in this course will include interpreting one-line diagrams, exploring power and specialty transformers, the six basic steps of switching and lock-out/tag-out (LOTO) procedures.			

Element/course:	ETST 258 - System Elements II – Protective Relays (3rd Year)	Planned Hours:	54
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC			
Description of element/course: As the last of the System Element courses, this course will focus on protective relaying of substation equipment and transmission lines. Details found in this course include practical understanding and identification of protective and control equipment, zones of protection, protection schemes, and relay communication systems			

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Element/course:	PWRP 224 – Power Generation Components & Protection (3rd Year)	Planned Hours:	54
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC			
Description of element/course: Students enrolled in this course will study the design and construction of large industrial generators used in the production of electricity. Students will study the various exciter designs and operation and the various auxiliary equipment that supports generator operation. Students enrolled in this course will study the electrical systems from the main generator through the switchyard including the various relay and protection schemes and zones. Safety aspects and operational checks in regards to placing electrical systems and components in and out of service will also be covered.			

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Element/course:	ELPW 105 – Electrical System Fundamentals (3rd Year)	Planned Hours:	54
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC			
Description of element/course: This course will begin with a look at several types of power generation stations, such as large fossil fired power plants, hydroelectric power plants, gas turbine and combined cycle generating stations and finally a brief look at wind generation. After the introduction to power generation, students will study how the power is delivered from the power station to the consumer. This course will cover transmission lines and related components within a typical transmission system, such as step-up and step-down transformers, circuit breakers, disconnects and protective relaying.			

Element/course: ELPW 206 – Electrical System Protection (3rd Year)	Planned Hours: 72
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC	
Description of element/course: This course covers protection fundamentals, philosophies and principles used to protect the electrical system, beginning with the generator itself. Various types of relays, input sources and system grounding are also covered.	

Element/course: ELPW 211 – Substation Relays (3rd Year)	Planned Hours: 72
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC	
Description of element/course: This course focuses on testing and calibrating substation equipment, including voltage testing on equipment feeder relays, and circuit breaker relays. Students also learn the various tests that need to be conducted on protective relays, such as overcurrent and voltage relays, directional and line relays, as well as ground and test device testing.	

Element/course: ETST 274 – Communication and Control Technology (3rd Year)	Planned Hours: 36
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☒ On-line ☐ Self-study Provided by: BSC	
Description of element/course: This course covers the theory and application of various communications technologies used in the electric industry	

Element/course:	Planned Hours:
Mode of Instruction (please check all that apply): ☐ Classroom ☐ Lab ☐ On-line ☐ Self-study Provided by:	
Description of element/course:	

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	Grand Coulee Power Office Apprenticeship

Committee Representative Name:
Douglas Pickel

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month &Year)	TO: (Month &Year)
Plant Superintendent	USBR	9/2013	Present
Electrical Supervisor	USBR	9/2012	9/2013
Power System Electrician (Foreman)	USBR	10/2004	9/2012
Power System Electrician	USBR	8/2001	10/2004
Power Lineman	Construction/ Contractor	8/1998	8/2001
Powerline Specialist	USAF	7/1978	8/1998

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
Wayland Baptist University	2/1992	8/1997	Business Admin/Technical MGMT	BSOE (8/1997)
Community College of the AF	7/1978	1/1991	Electric Power Systems	Associates (2 Yr)

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

Air Force Power line Specialist Technical school and OJT Training (Multiple skill levels)

Certificate of Fitness, Journeyman Lineman, Alaska From: 1998 to 2015

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	GCPO

Committee Representative Name:
Stacey Stanley

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month &Year)	TO: (Month &Year)
Operations Superintendent	BOR/GCPO	05/2011	Present
Operations Supervisor	BOR/GCPO	04/2008	05/2011
Operations Dispatcher	BOR/GCPO	02/2007	04/2008
Operations Assistant Dispatcher	BOR/GCPO	02/2006	02/2007
Journeyman Operator	BOR/GCPO	10/2004	02/2006
Nuclear Aux Op/reactor operator	WPS/ Kewaunee Nuclear Power Plant	07/1999	10/2004

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
Nuclear operator training Kewaunee, WI	07/1999	01/2000	Nuclear Operator Journeyman	Journeyman Cert.
Regents of New York	10/1993	10/1995	Nuclear technology	Associates of Science
Naval Nuclear Power training/ Orlando Fl, Idaho Falls ID.	09/1992	10/1993	Nuclear power	Nuclear Mechanic/Operator
Machinist Mate Trade school	05/1992	09/1992	Mechanical/machinist trade	Machinist Mate

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	GRAND COULEE POWER OFFICE - PSCC JATC

Committee Representative Name:
ROD WHITINGER

WORK EXPERIENCE

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
LPH/RPH Superintendent	Grand Coulee Power Office US Bureau of Reclamation	1/2013	Present
Electrical/ Crew Foreman	Chief Joseph Dam US Army Corps of Engineers	6/1992	1/2013

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
CENTRAL WASHINGTON JOINT ELECTRICAL APPRENTICE	6/1978	6/1982	INSIDE WIREMAN	JOURNEYMAN CERTIFICATE

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

WASHINGTON STATE MASTER ELECTRICIAN - WHITIRK978M8

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	GCPO

Committee Representative Name:
DANIEL BOOKER

WORK EXPERIENCE

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month &Year)	TO: (Month &Year)
THIRD POWER PLANT SUPERINTENDENT	US BUREAU OF RECLAMATION	12/2013	NOW
PROJECT MANAGER	US BUREAU OF RECLAMATION	7/2011	12/2013
PROJECT MANAGER / ENGINEER	WILSON ENGINEERS	6/2005	7/2011
PROJECT ENGINEER	CAROLLO ENGINEERS	1/2002	6/2005
DESIGN ENGINEER	RH2 ENGINEERS	6/2000	1/2002

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
ARIZONA STATE UNIVERSITY	9/2003	5/2005	CIVIL AND ENVIRONMENTAL ENGINEERING	MSE
WASHINGTO STATE UNIVERISITY	9/1994	5/2000	BIOLOGICAL SYSTEMS ENGINEERING	BS
OTHELLO HIGH SCHOOL		5/1994	HIGH SCHOOL	DIPLOMA

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OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

WASHINGTON STATE PROFESSIONAL ENGINEER 47963

ARIZONA PROFESSIONAL ENGINEER 41913

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	GCPO

Committee Representative Name:
David W. Crockett

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month &Year)	TO: (Month &Year)
O&M Manager	Grand Coulee Power Office, BOR, DOI	9/2013	Present
LPH/PGP Facility Manager	Grand Coulee Power Office, BOR, DOI	9/2007	9/2013
RPH/TPP Electrical Supervisor	Grand Coulee Power Office, BOR, DOI	7/2004	9/2007
LPH/PGP Maintenance Planner	Grand Coulee Power Office, BOR, DOI	6/2001	7/2004
LPH Electrical Foreman 1	Grand Coulee Power Office, BOR, DOI	6/1998	6/2001
RPH Electrical Foreman 1	Grand Coulee Power Office, BOR, DOI	6/1992	6/1998

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
Wenatchee Valley College	7/1979	7/1983	Electrical Apprenticeship	1A State License
Big Bend College	6/1974	6/1975	English/Algebra	N/A

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

Electrical Apprenticeship Instructor - For IBEW Local 497: 1983-1987; For BOR GCPO: 1987-1991 & 1995-1999

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	GCPO

Committee Representative Name:
Josh Bessette

WORK EXPERIENCE

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month &Year)	TO: (Month &Year)
Apprenticeship Coordinator	GCPO/Bureau of Reclamation	01/2016	Present
Full-Time Faculty	Fox Valley Technical College	07/2009	12/2015
Technical Training Consultant	Faith Technologies Inc.	07/2007	07/2009
Electrician/Electronic Systems Technician	Town and Country Electric	05/1995	07/2007

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
FVTC	08/1996	05/2000	Construction Electrician Apprenticeship	Completion Certificate
U.S. Army Signal School	11/1993	06/1994	Telephone and Switchboard Repair	Certificate
Shiocton High School	08/1989	05/1993	Secondary Education	Diploma

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

Certified to teach 413 Construction Electricians and 451 Telephone and Cabling
WI Master Electrician #861482
BICSI Certified Trainer
BICSI Technician

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	GCPO

Committee Representative Name: David Cartwright

WORK EXPERIENCE

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month &Year)	TO: (Month &Year)
Electrician	USBR GCPO	Aug 1999	Present
IBEW Electrician	Local 191/497	Aug 1993	Aug 1999

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
Local 191/497	Aug 1993	Aug 1998	Inside Wireman Apprentice	EL01

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

WA EL01

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	Grand Coulee Power Office Apprenticeship

Committee Representative Name:
Steven McFarling

WORK EXPERIENCE

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
Power Systems Control Craftsman Foreman I	Grand Coulee Third Power Plant	6/2014	Present
Power Systems Control Craftsman	Grand Coulee Third Power Plant	3/2013	6/2014
Power Systems Control Craftsman Trainee	Grand Coulee Third Power Plant	6/2012	3/2013
Testing Technician III	Power Testing and Energization	2/2008	3/2011
Lead Testing Technician	Stay'n Power, Inc	6/2003	10/2005
Field Service Technician	TIMA Power Systems	11/2001	6/2003

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
Navy Nuclear Propulsion Training Program – Electrican	5/1990	9/2001	Nuclear Power, Electrician	Successful completion and qualification
Hawaii Pacific University	1/1999	12/2000	Computer Science	

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

NETA Testing Technician Level II

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	GCPO

Committee Representative Name:
David Hansen

WORK EXPERIENCE

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month &Year)	TO: (Month &Year)
Electrician, FMN I	GCPO	12/2008	Now
Journeyman Elec / Apprentice	IBEW LU 191	03/2002	~~12/2008~~ 12/2008

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
LU 191 Apprenticeship	03/02	10/08	Inside Lineman	EI 01 (Washington) ~~Administrator (Washington)~~

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

SPRAT (Society of professional Rope Access Technicians) Level 2 Technician
Washington State Electrical Administrator (L+I)

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	Grand Coulee Power Office Apprenticeship

Committee Representative Name: Nathan Stout

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month &Year)	TO: (Month &Year)
OPS PSCC Foreman I	Grand Coulee Power Office	7/2014	Present
OPS PSCC	Grand Coulee Power Office	11/2007	7/2014
Electrical Engineer	Grand Coulee Power Office	1/2006	11/2007
Electrical Engineer Trainee	Grand Coulee Power Office	5/2002	1/2006

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
University of Idaho Moscow, ID	8/2001	12/2005	Electrical Engineer	Bachelors of Science Electrical Engineering

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	Grand Coulee Power Office

Committee Representative Name:	Keith Faul

WORK EXPERIENCE

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month &Year)	TO: (Month &Year)
Hydromechanic - Foreman 1	Grand Coulee Power Office	04- 2016	Present
Hydromechanic - Journeyman	" "	06- 2013	04- 2016
Hydromechanic - Apprentice	" "	02- 2009	06-2013
Heavy Equipment Operator	Lincoln Co. Public work	02- 1998	02-2009

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
Harvey High School	09-1986	05-1989	High School	Diploma

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Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	GCPO

Committee Representative Name:
Jason Schimek

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month &Year)	TO: (Month &Year)
Power Plant Operator	Grand Coulee Dam U S. DOI Bureau of Reclamation	Jan 2010	Present
Power Plant Operator	Austin Utilities Austin, MN	Apr 2006	Dec 2009
Power Plant Operator	Olmstead County Waste to Energy Rochester, MN	Nov 1999	Apr 2006

EDUCATION HISTORY

Name and Location of Training and/or School	Month/Year Attended From	To	Program of Study	Type of Certificate or Degree Awarded, if any
Roger Williams University	Sep 10	Aug 14	BGS	Bachelors
Rochester Community Technical College	Sep 97	May 99	Building and Utilities Maint.	Diploma
Kasson-Mantorville High School	Sep 90	Jun 94	High School	Diploma

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

Minnesota Chief "A" stationary engineer's license from 2005 to 2011

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