

STANDARDS OF APPRENTICESHIP
Adopted by

SOUTHERN OREGON ELECTRICAL UTILITIES JATC

<u>Occupational Title:</u>	<u>SIC #</u>	<u>SOC #</u>	<u>SYMBOL</u>	<u>SUFFIX</u>	<u>Term</u>
Hydro Journeyman Power Plant Mechanic B	4911	51-8013	0905	001	6,000 OJT hours

MA#: **5007** SOC Title: **Power Plant Operators** License: **N/A**



APPROVED BY THE
Oregon State Apprenticeship and Training Council (OSATC)

Registered with the

Apprenticeship and Training Division
Oregon Bureau of Labor and Industries
800 NE Oregon Street
Portland, Oregon 97232

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Appendices A – H contain information specific to this program.

Introduction – Apprenticeship Standards

The Oregon State Apprenticeship and Training Council (OSATC) has the authority, under the direction of the Apprenticeship and Training Division, to develop, administer, and enforce apprenticeship program standards (Standards) for the operation and success of an apprenticeship or on-the-job training program in the State of Oregon. Apprenticeship programs and committees function to administer, exercise or relinquish authority only with the consent of the OSATC. Only apprentices registered with or recognized by the Oregon Bureau of Labor and Industries (BOLI), Apprenticeship and Training Division (ATD) will be recognized by the OSATC. Parties' signatory to these apprenticeship standards declare that their purpose and policy is to establish and sponsor an organized system of registered apprenticeship and training education.

These Standards are in conformity with and are to be used in conjunction with the Apprenticeship Rules, Chapter 839-011 OAR (Oregon Administrative Rules); Apprenticeship and Training Statutes, Chapter 660 ORS (Oregon Revised Statute); 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 collectively govern the employment and training in apprenticeable occupations. They are part of the apprenticeship agreement and bind all signers to compliance with all provisions of registered apprenticeship.

If approved by the OSATC, such amendment(s) and such changes as adopted by the OSATC shall be binding to all parties on the first day of the month following such approval. Sponsors shall notify apprentices and training agents of changes as they are adopted by the OSATC. If and when any part of these Standards becomes illegal, as it pertains to federal and/or state law, that part and that part alone will become inoperative and null and void, and the Oregon Bureau of Labor and Industries (BOLI) may recommend language that will conform to applicable law for adoption by the OSATC. The remainder of the Standards will remain in full force and effect.

See ORS Chapter 660.010 & OAR 839-011-0070 for the definitions of terms used within these Standards.

Notes: The body of this document contains boilerplate language that applies to all registered apprenticeship programs in the State of Oregon. Boilerplate language may only be modified by the Oregon State Apprenticeship and Training Council.

Appendices A-H are specific to the individual standard and may be modified by the sponsor by submitting a revised standard for approval by the Oregon State Apprenticeship and Training Council or by the Apprenticeship and Training Division (ATD) with concurrence from OSATC where permitted by ORS 660 and OAR 839-011.

1. GEOGRAPHIC AREA COVERED:

These standards establish the apprenticeable occupation to be taught and designate the geographical area or areas in which the standards will apply. (ORS 660.126) The Sponsor shall have a plan to ensure that participating employers will provide work in all areas covered by the program standards (OAR 839-011-0084). The Sponsor shall ensure compliance with the provisions for and of any Reciprocity Agreement recognized by the OSATC. (ORS 660.120 / OAR 839-011-0260)

The geographic area covered by these standards are located in Appendix A: Geographical Area. ([Ctrl + Click to follow link](#))

2. MINIMUM QUALIFICATIONS:

Minimum qualifications, including a minimum age of at least 16, must be clearly stated, comply with federal and state regulations, and be applied in a nondiscriminatory manner (ORS 660.126 (1b)). The Sponsor shall maintain documentation for all minimum qualifications for any apprentice who is registered.

Minimum Qualifications for this standard are located in Appendix B: Minimum Qualifications. ([Ctrl + Click to follow link](#))

3. OREGON PLAN for EQUAL EMPLOYMENT OPPORTUNITY IN APPRENTICESHIP (OAR 839-011-0200) – PROGRAM OBLIGATIONS:

Standards must include the Oregon Equal Employment Opportunity in Apprenticeship and Training Pledge as specified in the Oregon Plan for Equal Employment Opportunity in Registered Apprenticeship Programs (OPEEO) Section 3(h)(i).

EEO PLEDGE

SOUTHERN OREGON ELECTRICAL UTILITIES JATC shall not discriminate against apprenticeship applicants or apprentices based on race, color, religion, national origin, sex (including pregnancy and gender identity), sexual orientation, genetic information, or because they are an individual with a disability or a person 18 years old or older.

SOUTHERN OREGON ELECTRICAL UTILITIES JATC shall take affirmative action to provide equal opportunity in apprenticeship and shall operate the apprenticeship program as required under these rules and Title 29 CFR, part 30.

Sponsors with five (5) or more apprentices must adopt an Equal Employment Opportunity Plan and Selection Procedures and submit the plan for OSATC approval. (OAR 839-011-0200 / OPEEO Sections 4 & 10).

A. EQUAL EMPLOYMENT OPPORTUNITY PLAN:

- i. A Sponsor's commitment to equal opportunity in recruitment, selection, employment and training of apprentices shall include the adoption of a written affirmative action plan. (OAR 839-011-0200 / OPEEO section 8). Each Sponsor required under OPEEO section 4 to

develop and maintain an EEO program must retain both the written EEO plan and documentation of its component elements set forth in OPEEO sections 5, 6, 7, 8, 9, and 11.

- ii. In addition, the sponsor will set forth the specific steps that it will take under this plan, review and update the specific steps that it will take to implement the plan at least yearly and submit the updated steps to the Apprenticeship and Training Division (ATD) for review and approval. (OPEEO section 8)
- iii. Numerical utilization goals for the selection of minorities, females, and individuals with disabilities for apprenticeship shall be submitted to ATD at least every three (3) years and prior to the date that any previous goals expire. (OPEEO sections 6 & 7).
- iv. The sponsor hereby adopts the following activities, at a minimum, in order to generate an increase in applications for apprenticeship and improve retention of apprentices from the targeted groups and/or individuals with disabilities:

- a. RECRUITMENT

Advertising openings for apprenticeship opportunities using methods and in locations that result in applications from candidates from the underutilized groups.

- b. OUTREACH

Dissemination of information to organizations serving underutilized groups regarding the nature of apprenticeship.

Cooperation with local school boards and career technical education systems to develop and/or establish relationships with pre-apprenticeship programs targeting students from the underutilized groups to prepare them to meet the standards and criteria required to qualify for entry into apprenticeship programs.

Establishment of formal agreements or partnerships enlisting the assistance and support of pre-apprenticeship programs, community-based organizations, advocacy organizations, or other appropriate organizations, in recruiting qualified individuals for apprenticeship.

- c. RETENTION:

Practices to retain targeted populations and maintain working and learning environments which supports current apprentices to remain with the program.

B. SELECTION PROCEDURES:

Sponsors with five (5) or more apprentices must adopt a selection procedure and apply it uniformly to all applicants regardless of race, color, religion, national origin, sex, sexual orientation, age (18 or older), genetic information, and disability. (ORS 660.137 (3) / OPEEO section 10).

Selection Procedures for this program are located in Appendix C: Selection Procedures.
[\(Ctrl + Click to follow link\)](#)

C. DISCRIMINATION COMPLAINTS:

- i. Any apprentice or applicant for apprenticeship who believes they have been discriminated against with regards to apprenticeship by the committee may file a complaint. (OAR 839-011-0200 / OPEEO Section 14)
- ii. The basis of the complaint may be:
 - a. Discrimination on the basis of race, sex, color, religion, national origin, age, disability or as otherwise specified by law by a sponsor or a sponsor's program
 - b. The equal employment opportunity plan has not been followed; or
 - c. The Sponsor's equal employment opportunity plan does not comply with the requirements of the Oregon Equal Employment Opportunity in Apprenticeship Plan.
- iii. Generally, a complaint must be filed within three hundred (300) days of the alleged discrimination or specified failure to follow the equal opportunity standards. However, for good cause shown, the Registration Agency may extend the filing time.
- iv. The written complaint must include the name, address and telephone number of the person allegedly discriminated against, the sponsor involved and a description of the circumstances of the complaint, a short description of the events that took place, and the complainant's signature.
- v. For complaints dealing with program operations see section 10 (Administrative Disciplinary Procedures) of this standard.

4. TERM of APPRENTICESHIP:

- A. The term of apprenticeship, which for an individual apprentice may be measured either through the completion of the industry standard for on-the-job learning (at least 2,000 hours in the time-based approach), the attainment of competency (competency-based approach), or a blend of the time-based and competency-based approaches (hybrid approach).
- B. The time-based approach measures skill acquisition through the individual apprentice's completion of at least 2,000 hours of on-the-job learning as described in a work process schedule.
 - i. The term of apprenticeship for a time-based approach must be stated in hours unless otherwise required by a collective bargaining agreement, civil service or other governing regulation. (ORS 660.126)
- C. The competency-based approach measures skill acquisition through the individual apprentice's successful demonstration of acquired skills and knowledge, as verified by the program sponsor. Programs utilizing this approach must still require apprentices to complete an on-the-job learning component of Registered Apprenticeship. The program standards must address how on-the-job

learning will be integrated into the program, describe competencies, and identify an appropriate means of testing and evaluation for such competencies.

- D. The hybrid approach measures the individual apprentice's skill acquisition through a combination of specified minimum number of hours of on-the-job learning and the successful demonstration of competency as described in a work process schedule. (Title 29 Part 29(5)(b)(2) CFR) OAR 839-011-0084(A)(B)(C))
- E. When the apprentice is granted advanced standing, the employer must pay the apprentice at the appropriate wage per the wage progression schedule specified in these standards or higher. (ORS 660.142)

NOTE: In licensed occupations the apprentice must complete the minimum hours of documented legal experience.

The term of apprenticeship for this program is located in Appendix D: Term, Probationary Period, Ratio. ([Ctrl + Click to follow link](#))

5. **INITIAL PROBATIONARY PERIOD:**

- A. All apprentices are subject to an initial probationary period, stated in hours of employment, beginning on the effective date of the apprentice's current registration into the program. During this time, the apprentice's appeal rights are restricted, and the Sponsor may terminate an apprenticeship agreement without cause. (ORS 660.126 (1g))
- B. The initial probationary period must be reasonable in relationship to the full term of the apprenticeship unless otherwise required by Civil Service, Collective Bargaining Agreement (CBA) or law. It cannot exceed one year (12 months) or 25 percent of the length of the program, whichever is shorter. (ORS 660.126 (1g))
- C. During the initial probationary period either party to the agreement may terminate the apprenticeship agreement upon written notice to the Apprenticeship and Training Division of the Oregon Bureau of Labor and Industries. (ORS 660.126 (1g) & ORS 660.060 (6))
- D. Full appeal rights are available to apprentices who have completed the initial probationary period. After the probationary period the Sponsor may only suspend, cancel or terminate the apprenticeship agreement for good cause, with prior written notice to the apprentice, and with written notice to the apprentice and to the Apprenticeship and Training Division of the Bureau of Labor and Industries of the final action taken by the committee. (ORS 660.060 (6) & (7) and section 10 of this standard)

The probationary period for this program is located in Appendix D: Term, Probationary Period, Ratio. ([Ctrl + Click to follow link](#))

6. **RATIO OF APPRENTICES TO JOURNEY LEVEL WORKERS**

- A. There shall be a maximum numeric ratio of apprentices to journey-level workers consistent with proper supervision, training, safety and continuity of employment. (ORS 660.126 (1f))

- B. The ratio shall be specifically and clearly stated as to its application to the job site, workforce, department, shift, plant or combination therein. (ORS 660.126 (1f))
- C. To ensure safety and training in all phases of the work, the Sponsor and its Training Agents shall ensure that apprentices are under the supervision of competent and qualified journey-level workers on the job who are responsible for the work being performed. (ORS 660.126 (1f), ORS 660.137 (5), OAR 839-011-0143)

The ratio of apprentices to journey level workers for this program is located in Appendix D: Term, Probationary Period, Ratio. ([Ctrl + Click to follow link](#))

7. APPRENTICE WAGES and WAGE PROGRESSION:

- A. The apprentice shall be paid according to a progressively increasing schedule of wage based on specified percentages of the average journey-level wage consistent with skills acquired. (ORS 660.126 (1h), OAR 839-011-0082(6a), OAR 839-011-0093, & OAR 839-011-0310)
- B. Wage progressions shall be indicated in hourly or monthly periods (the registration agency recommends the use of hour periods) set by the Sponsor. (ORS 660.126 (1h))
- C. The entry wage listed in this standard shall not be less than the federal or state minimum wage rate for the region covered by the geographical jurisdiction by that standard, whichever is higher. (ORS 660.142 (4))
- D. The wage listed in this standard at all periods establishes a minimum, but a higher wage shall be paid if it is required by other applicable federal law, state law, respective regulations, or by a collective bargaining agreement. (ORS 660.126 (1h), ORS 660.137 (6), ORS 660.142 & OAR 839-011-310 (3))
- E. The sponsor must re-determine the average journey-level wage at least annually and submit the new average journey wage to the Director of the Apprenticeship and Training Division with a statement explaining how such determination was made and the effective date of the new average journey wage. (ORS 660.137 (6))
- F. Upon receipt of a committee's determination of its current journey worker hourly wage rate, the Director, the Division shall notify all training agents and apprentices of the new wage. (ORS 660.142 (2))

The average wage and wage progression for this apprenticeship standard are located in Appendix E: Wage and Wage Progression. ([Ctrl + Click to follow link](#))

8. WORK PROCESSES:

- A. The Sponsor shall provide the necessary instruction and experience for apprentices to become journey-level workers versed in the theory and practice of the occupation. (ORS 660.137 / OAR 839-011-0270(1b))
- B. The Sponsor shall require the approximate hours listed in the standard's Work Processes as closely as conditions will permit for every apprentice. A Sponsor unable to provide an apprentice

with work experience equaling at least 50% of the hours listed in any of the work processes must provide and document additional related training to compensate for the lack of on-the-job training. (ORS 660.126 (1e), OAR 839-011-0084(3b), and OAR 839-011-0265(1))

NOTE: In licensed occupations apprentices must complete the minimum required total hours prior to being referred to the license examination. (OAR 839-011-0265(2))

Work processes for this program are located in Appendix F: Work Processes. ([Ctrl + Click to follow link](#))

9. **RELATED TRAINING:**

- A. The apprentice must attend related/supplemental instruction for at least 144 hours per year unless otherwise stated in this standard. Time spent in related/supplemental instruction will not be considered as hours of work, and the apprentice is not required to be paid for time so spent except where the training agent states by policy or CBA whether and under what circumstances an apprentice is entitled to be financially compensated for attending related instruction. (ORS 660.126 (1e), ORS 660.157, OAR 839-011-0084, and OAR 839-011-0088(1b))
- B. The Committee must provide for instruction of the apprentice during the related/supplemental instruction in safe and healthful work practices in compliance with the Oregon OSHA regulations and applicable federal and/or state regulations. (ORS 660.137 / OAR 839-011-0082 (6a), OAR 839-011-0084, & OAR 839-011-0310)
- C. In case of failure on the part of any apprentice to fulfill the related instruction obligation, the sponsor has the authority to withhold the apprentice's periodic wage advancement; or with a reasonable opportunity to remedy deficiencies, suspend, or cancel the Apprenticeship Agreement. (ORS 660.137 (4))
- D. Clock hours of actual attendance by the apprentice in related/supplemental instruction classes at the community college, training trust or other approved training provider shall be documented and tracked by the Committee. (ORS 660.137 (2a))
- E. Related instruction activities must be at the direction of a qualified instructor. (ORS 660.120 (3), ORS 660.157 (5), ORS 660.160, OAR 839-011-0084 (3f))

The Sponsor must identify the methods of related/supplemental training must consist of one or more of the following: (ORS 660.120 (3), ORS 660.157, OAR 839-011-0084 (3f)).

A minimum number of 144 hours per year are required unless the program has received a waiver from the Oregon State Apprenticeship and Training Council. (ORS 660.157(2))

A summary of related training topics, hours, and methods are located in Appendix G: Related Training. ([Ctrl + Click to follow link](#))

10. **ADMINISTRATIVE/DISCIPLINARY PROCEDURES:**

- A. The Sponsor shall administer its program in conformity with its approved standards, with the provisions of ORS 660.002 to 660.210, and with the rules and policies of the council and the division. The Sponsor shall establish policies to meet these requirements and list them in this

section. The Sponsor shall maintain a separate document for the procedures it will utilize to implement its policies. (ORS 660.137 (2) and OAR 839-011-0073)

- B. The committee may include provisions for committee-imposed “disciplinary probation,” which is a time assessed when the apprentice’s progress is not satisfactory; a “disciplinary probation” may only be used to provide an opportunity for the apprentice to correct deficiencies and cannot affect the apprentice’s appeal rights after the initial probation is completed. (ORS 660.137 (4))
- C. During disciplinary probation the committee may withhold periodic wage advancements, suspend or cancel the apprenticeship agreement, or take other disciplinary action. (ORS 660.137 (4))
- D. The apprentice has the right to file an appeal of the committee’s disciplinary action with the Director of the Apprenticeship and Training Division. (ORS 660.120, OAR 839-011-0090 and OAR 839-011-0093)
- E. Complaint and Appeal Procedures:
 - i. Each committee shall adopt and submit complaint review procedures for Division approval. (OAR 839-011-0084 (3g))
 - ii. All approved committees are expected to administer the program’s approved complaint review process in a fair and consistent manner. (ORS 660.120, ORS 660.060 & OPEEO Section 14)
 - iii. Complaints that involve matters covered by a collective bargaining agreement are not subject to the complaint review procedures in this section. (ORS 660.126 (2))
 - iv. After the initial probationary period the apprenticeship agreement may be canceled by a written request from the apprentice. (ORS 660.126 (1g) ORS 660.060 (7))
 - v. After the initial probationary period the committee may only suspend, cancel or terminate the apprentice agreement for good cause, which includes but is not limited to: failure to report to work, nonattendance at related instruction, failure to submit work progress reports and lack of response to committee citations. (ORS 660.060 (7))
 - a. Due notice and a reasonable opportunity for correction must be provided to the apprentice.
 - b. Upon suspension a written notice must be provided to the apprentice and to the Apprenticeship and Training Division.
 - c. Upon cancellation a written notice must be provided to the apprentice and to the Apprenticeship and Training Division.
 - vi. Each committee shall utilize the following procedures and timelines for disciplinary action (cancellation or termination). Committees may adopt and submit alternate complaint procedures, for Division review and approval, providing the procedures are reasonably expected to offer equal protection to the apprentice. (ORS 660.137, OAR 839-011-0175)
 - a. At least 22 days prior to potential disciplinary action by a committee (OAR 839-011-0175):
 - The committee must notify the apprentice in writing of alleged reason for the proposed disciplinary action and potential action to be taken if the allegation is substantiated

- The decisions are effective immediately upon committee action
 - The committee will send written reason(s) for such action to the apprentice by registered or certified mail and will include the appeal rights of the apprentice.
- b. Within 30 days of receipt of committee decision the apprentice may request reconsideration of the action taken by the committee
- The apprentice's request for the local committee to reconsider their disciplinary action must be submitted in writing and must include the reason(s) the apprentice believes the committee should reconsider the disciplinary action.
- vii. Within 30 days of apprentice's request for reconsideration
- The local committee must provide written notification of their final decision including the appeal rights of the apprentice if the committee upholds its decision on the disciplinary action
- viii. If the apprentice chooses to pursue the complaint further
- a. Within 30 days of notification of the committee's final action
- The apprentice must submit the complaint describing in writing the issues associated with the disciplinary action to the Director of the Apprenticeship and Training Division
 - The apprentice must describe the controversy and provide any backup information
 - The apprentice must also provide this information to the local committee/organization
- b. Within 60 working days the Director of the Apprenticeship and Training Division will complete a review of the record
- If no settlement is agreed upon during review, the Director must issue a non-binding written decision resolving the controversy.
- ix. If the apprentice or local committee disputes the Director's decision
- a. Within 30 days of Director's decision the dissenting party must submit a request for the OSATC to hear its case
- Request must be in writing
 - Must specify reasons supporting the request
 - Request and supporting documents must be given to all parties
 - OSATC Rules and Policy Sub-Committee conducts hearing within 45 days and reports its findings to the next regular quarterly meeting of the OSATC
 - The OSATC renders a decision based on the sub-committee's report.
- b. Within 30 days of the OSATC meeting
- The Secretary of the OSATC issues the decision in writing.

11. **COMMITTEE – RESPONSIBILITIES AND COMPOSITION**

The following is an overview of the requirements associated with administering an apprenticeship committee and/or program. These provisions are to be used in conjunction with the corresponding ORS and/or OAR.

- A. The committee is the policymaking and administrative body responsible for the operation and success of this Apprenticeship program.

- B. The committee is responsible for the day-to-day operation of the apprenticeship program and must be knowledgeable in the application of Chapter 660 ORS, OAR 839 division 011 and other law and rule as appropriate to the occupation(s).
- C. Sponsors must develop policies and procedures for committee operations and provide a copy to registered apprentices (ORS 660.060 (8), ORS 660.135, ORS 660.137, OAR 839-011-0170, and OAR 839-011-0310 (1b)). The committee's specific policies pertaining to the operation of the program are included in this standard. The procedures for the implementation of the approved policies are maintained by the committee. After approval by the division the approved procedures shall be distributed to all apprentices and training agents.
- D. Committees shall meet as often as is necessary to transact business and at least semi-annually with a quorum in order to review and evaluate the progress of each apprentice. (ORS 660.137 (4) and ORS 660.145)
- i. A quorum shall consist of at least two (2) members representing the employers and two (2) members representing the employees. (ORS 660.135 (3), ORS 660.145)
 - ii. Sponsors must hold a physical meeting for all disciplinary actions. Electronic polling is prohibited for issues requiring the personal appearance of applicants, apprentices, trainees, training agents or employers. (OAR 839-011-0170)
 - iii. Minutes of all meetings must be submitted to the Apprenticeship and Training Division within 10 working days of the meeting. (OAR 839-011-0170)
- E. Program Operations (ORS 660.135, ORS 660.137, OAR 839-011-0170, OAR 839-011-0200):
- i. The Committee will record and maintain records pertaining to the local administration of its Apprenticeship Program and make them available to the OSATC or its representative on request.
 - a. These records include, but are not limited to:
 - Selection of applicants
 - Administration of the apprenticeship program
 - Affirmative action plans
 - Documentation necessary to establish a sponsor's good faith effort in implementing its affirmative action plan
 - Qualification standards
 - ii. Records required by the Oregon Equal Employment Opportunity in Apprenticeship Plan (OAR 839-011-0200) will be maintained for five (5) years; all other records will be maintained for five (5) years after the final action taken by the committee on the apprenticeship agreement.

The following must be submitted by all programs through the Oregon Apprenticeship Tracking System (OATS) apprenticeship management portal:

- a. Apprenticeship Registration Agreement – within the first 45 days of employment as an apprentice. (ORS 660.020, OAR 839-011-0088) (In licensed occupations registration must occur prior to employment in the trade)

- b. Committee Minutes – within 10 working days of the meeting. (OAR 839-011-0170)
- c. Authorized Training Agent Agreements – with the meeting minutes at which they are approved. (ORS 660.020, OAR 839-011-0162)
 - Interim recognition may be authorized by committee policy but may not exceed 45 calendar days.
 - Any recognition of a training agent prior to formal action of the committee must be in conformance with the committee's OSATC approved policy.
- d. Revision of Occupation Standards - as necessary, no later than 45 days prior to OSATC meeting. (OAR 839-011-0030) (Programs should review their Standards at least annually)
- e. Revision of Committee Member Composition as necessary (included in committee minutes). (OAR 839-011-0074)
- f. Average Journey Level Wage – at least annually or whenever changed (included in committee meeting minutes with a summary of how the average wage was determined). (ORS 660.137 (6), ORS 660.142)
- g. Adopt, as necessary or as directed, local program policies and procedures for the administration of the apprenticeship program in compliance with this Standard. (ORS 660.060 (9), ORS 660.120 (4a), OAR 839-011-0073)
 - Policies must be submitted to the OSATC for review and approval.
 - Procedures must be submitted for Division (ATD) approval and inclusion by reference in this Standard prior to implementation.
- h. Authorization for issuance of initial license may be granted after the committee is found to be in compliance for operational purposes.
- i. Forms are available from the Apprenticeship and Training Division. If approved by the OSATC, such amendment(s) and such changes as adopted by the OSATC will be binding to all parties on the first day of the month following OSATC approval.

F. Apprentice Management:

- i. Applicants accepted by the committee, who have documented legal experience creditable to the apprenticeship in the skilled occupation or in some other related capacity, may be granted advanced standing as apprentices. (OAR 839-011-0088 (3a)) Apprentices admitted to advanced standing will be paid the wage rate for the period to which such credit advances them. In licensed occupations previous credit must be documented legal experience. (OAR 839-011-0088 (3b))
- ii. 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 Apprenticeship and Training Division of the Bureau of Labor and Industries within the first 45 days of employment as an apprentice. (ORS 660.020 (1), ORS 660.060, OAR 839-011-0088)
- iii. The Sponsor shall provide a copy of the committee meeting minutes approving any change of disposition or modification of the Registration Agreement to the Apprenticeship and Training Division within 10 working days of the committee meeting. (OAR 839-011-0170)

- a. Requests for disposition or modification of Agreements include: (1) Certificate of completion, (2) Additional credit, (3) Suspension, military service, or other, (4) Reinstatement, (5) Cancellation, (6) Re-rates, (7) Holds, (8) Examination Referral, (9) Corrections, (10) Limited Supervision-electrical, (11) Phased Supervision-plumbing.
- iv. Rotate apprentices in the various processes of the skilled occupation to ensure the apprentice is trained to be a competent journey-level worker. (ORS 660.137 (2c), OAR 839-011-0265.
- v. At least once every six months the sponsor must review and evaluate each apprentice's progress and take action to advance based on the apprentice's progress or hold the apprentice at the same level for a reasonable period and opportunity for corrective action or terminate for continued inadequate progress. (ORS 660.137 (4))
- vi. The evidence of such action will be the record of the apprentice's progress on the job and during related/supplemental instruction.
 - a. If the apprentice's progress is not satisfactory, the committee has the obligation to withhold the apprentice's periodic wage advancements, suspend or cancel the Apprenticeship Agreement, or take other disciplinary action as established under the "Administrative/Disciplinary Procedures."
- vii. The Sponsor has the obligation and responsibility to provide, within the constraints of industry and market conditions, reasonably continuous employment for all apprentices in the program. (ORS 660.126, ORS 660.020, and OAR 839-011-0310 (2))
 - a. The committee may arrange to transfer an apprentice from one training agent to another or to another committee when the committee 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 this Standard.
 - b. If, for any reason, a layoff of an apprentice occurs, the Apprenticeship Agreement will remain in effect unless canceled by the committee.
- viii. An apprentice who is unable to perform the on-the-job portion of apprenticeship training may, if the apprentice so requests and the committee approves, participate in related/supplemental instruction classes, subject to the apprentice obtaining and providing written medical approval for such participation. However, time spent will not be applied toward the on-the-job portion of apprenticeship training. (ORS 660.126 (i))
- ix. The Sponsor shall hear and address all complaints of violations of apprenticeship agreements. (ORS 660.137)
- x. Upon successful completion of apprenticeship, as provided in these Standards, and passing any examination that the committee may require, the committee will recommend that the Oregon Commissioner of Labor award a Certificate of Completion of Apprenticeship. (ORS 660.137, ORS 660.205)

G. Training Agent Management:

- i. The Sponsor shall afford all employers and their qualified employees the opportunity to participate, on a non-discriminatory basis, in existing programs. (OAR 839-011-0084 (2))
- ii. The Sponsor shall provide equal treatment and opportunity for all apprentices through reasonable working and training conditions and apply those conditions to all apprentices uniformly. (OAR 839-011-0200)
- iii. The Sponsor shall provide training agents and prospective training agents with a written statement of costs for program participation. (OAR 839-011-0084(3c))
- iv. The Sponsor shall not require an employer to sign a collective bargaining agreement or join an association as a condition of participation. (OAR 839-011-0162 (3))
- v. The Sponsor shall determine the adequacy of an employer to furnish proper on-the-job training in accordance with the provisions of these Standards. (ORS 660.137(5))
- vi. The Sponsor shall require all employers requesting approved training agent status to complete a training agent application and comply with all Oregon State apprenticeship laws and the appropriate apprenticeship Standards. (ORS 660.137(5))
- vii. The Sponsor shall submit approved training agent agreements to the Apprenticeship and Training Division within ten (10) working days of committee approval with a copy of the agreement and/or the list of approved training agents and committee minutes where approval was granted. (OAR 839-011-0170)
- viii. The Sponsor shall make periodic checks of approved training agents and withdraw approval when approval qualifications are no longer met or when it appears to the committee that the employer is in violation of the terms of the apprenticeship agreement, standards, rules, regulations and policies of the committee or OSATC. (ORS 660.137(5))
- ix. If a committee acts to withdraw training agent status from an employer, the action must be recorded in the committee minutes and submitted to the Apprenticeship and Training Division within 10 working days of the committee action. (OAR 839-011-0170)

H. OSATC Required Policies: (ORS 660.120 - ORS 660.137/OAR 839-011-0073)

- i. All local committees shall develop and administer operating policies and procedures to govern program operations as directed by the OSATC and administer such policies and procedures in a consistent manner. Policies and procedures will be approved by the committee and recorded in the meeting minutes.
- ii. When adopted or revised, the Sponsor shall submit these policies and procedures to ATD staff who will advise the Sponsor regarding their conformity with apprenticeship laws, rules and OSATC guidelines.
- iii. Committee policies and procedures must include the following written policies:
 - a. Credit for prior experience
 - b. OJT requirements (hours, work processes, rotation/partial rotation, monthly progress reports, timelines, applicable penalties)
 - c. Related training requirements (attendance, grades):

- d. Complaint procedures:
 - e. Process for the review and evaluation of apprentice progress:
 - f. Advancement requirements (re-rates, completions):
 - g. Disciplinary process (appearances, holds, cancellations):
 - h. Training agent requirements (approval, discipline, removal):
 - i. Traveling training agent policy:
 - j. Initial employment policy:
 - k. Placement procedures for out-of-work apprentices:
 - l. License requirements, including exam referral and completion requirements (for licensed trades only).
- I. Composition of Committee:
- i. Joint apprenticeship and training committees must be composed of an equal number of employee and employer representatives composed of at least four principal members but no more than eight principal members. An alternate member may be appointed for each principal member. A quorum shall consist of at least two employer members and two employee members. (ORS 660.135; OAR 839-011-0074)
 - ii. Trades apprenticeship and training committees must be composed of an equal number of employee and employer representatives composed of one principal employee and one principal employer member for each occupation covered by the trades committee. An alternate member may be appointed for each principal member. A quorum shall consist of at least two employer members and two employee members. (ORS 660.145; OAR 839-011-0074)
 - iii. Employee representatives shall
 - a. be skilled practitioners of the trade or occupation and be a member of the collective bargaining unit if a collective bargaining agreement exists for the trade or occupation that is the subject of the apprenticeship or training program administered by the committee (OAR 660.135); or
 - b. be a bargaining unit representative for the employees of a participating training agent (OAR 839-011-0074(1b)); and
 - c. not serve in a supervisory capacity as defined in the National Labor Relations Act, as amended. (OAR 839-011-0074(1b))
 - iv. The committee shall elect a chairperson and a secretary from the committee members. One of the offices must be held by an employer member and one office must be held by an employee member. (OAR 839-011-0074(8))
 - v. The Council or the Sponsor may remove committee members or officers for failure to abide by ORS 660 or the rules and policies of the OSATC or committee. (OAR 839-011-0078)

The program administered by this committee is a:

JATC

(ORS 660.135) or (ORS660.145)

The employer representatives shall be: (See attached committee list)

The employee representatives shall be: (See attached committee list)

12. **SUBCOMMITTEE**

Subcommittee(s) may be approved by the sponsor but may only recommend actions to the parent Committee.

13. **PROGRAM CONTACT INFORMATION**

The Sponsor may employ a person(s) as a full or part-time Training Coordinator(s)/Training Director(s)/Administrator(s). This person(s) will assume responsibilities and authority for the operation of the program as are specifically delegated by the Sponsor. (ORS 660.135(5)) See Appendix H for this program's contact information.

Program contact information is located in Appendix H: Program Contact. ([Ctrl + Click to follow link](#))

APPENDIX A: GEOGRAPHICAL AREA

The geographic area covered by these standards are

**PacifiCorp facilities in:
BENTON COUNTY
DOUGLAS COUNTY
JACKSON COUNTY
JOSEPHINE COUNTY
KLAMATH COUNTY
LAKE COUNTY
LANE COUNTY
LINCOLN COUNTY
LINN COUNTY
MARION COUNTY
POLK COUNTY**

in the State of Oregon.

APPENDIX B: MINIMUM QUALIFICATIONS

Minimum Qualifications for this standard are:

Age:	At least eighteen (18) years of age.
Education:	High school graduation or GED equivalency.
Physical:	None
Testing:	Qualifying score on NECA/IBEW NJATC aptitude test
Other:	Satisfactory completion of 1,000 hours of work experience applicable to the occupation
Note:	See section X, 6 and 7

APPENDIX C: SELECTION PROCEDURES

Selection Procedure:

All out of work apprentices in good standing will be offered the opportunity for re-employment prior to new applicants being registered in conformance with the committee's approved initial employment policy.

The committee shall select apprentices from a pool of eligible applicants according to the following procedure:

Training agents will select apprentices from employees who have been actively employed for at least 6 months, with a minimum of 1,000 hours on the job.

A training agent in good standing with the committee who is unable to fill apprenticeship openings from its existing workforce may accept applications from external applicants under the following conditions:

- a. The training agent must submit documentation to the committee demonstrating its inability to fill the position(s) from its existing workforce prior to selecting external applicants; and
- b. A public notice regarding the apprenticeship opportunity must be distributed at least 30 days prior to the first date of accepting external applications and must include the following elements:
 - 1) Date of the notice
 - 2) Dates applications will be accepted (at least 2 weeks)
 - 3) Minimum qualifications and employment requirements (as listed in the standard)
 - 4) Application procedures, including location(s) and submission timelines
 - 5) Selection process and timelines
 - 6) Information about the occupation and nature of apprenticeship
 - 7) Employer's equal opportunity pledge

When a training agent selects its 4th apprentice in a single occupation, it must submit its selection process to the committee, including its initial placement procedures. Upon review and approval, the committee will forward this information to ATD for OSATC approval. The training agent cannot select additional apprentices until all required information has been submitted.

Training agents will be responsible for maintaining records related to the recruitment and selection of apprentices for a 5-year period. Documentation is to include:

- a. Apprenticeship opportunity postings
- b. A list of employees who applied for each opening, including race/ethnicity and gender
- c. A brief summary of the job-related selection factors and tools utilized (interview, supervisor recommendation, seniority, etc.), including the basis for evaluation, selection, and rejection of each applicant

The committee will record the names of all training agents who employed 5 or more apprentices during the previous year in the minutes of its first meeting each year.

- a. These training agents will be scheduled for an Affirmative Action Compliance Review and will be required to provide information regarding their selection practices to ATD, including:
 - 1) Copies of posted apprenticeship openings or bid lists
 - 2) Apprentice recruitment and selection documentation
 - 3) Employer policies related to the selection of employees and apprentices
 - 4) Relevant sections from applicable collective bargaining agreements
- b. Any training agent who fails to provide the required information or to follow its OSATC-approved selection procedure will be cited to appear before the committee to discuss selection requirements and obligations.

- c. Training agents who are unable to assure the committee of their ability and commitment to comply with these requirements will face disciplinary action, up to and including withdrawal of training agent approval.

Previous or current apprentices who gained their experience in a registered Substation Electrician program during the preceding 4 years will be permitted to enter this program provided they meet current minimum qualifications and are either in good standing or were not terminated for cause from an apprenticeship program during the previous 4 years.

APPENDIX D: TERM, PROBATIONARY PERIOD, RATIO

Term of Apprenticeship:

This is a competency-based apprenticeship standard. The term of this standard of apprenticeship shall be no less than **6,000** hours of employment. **The time periods for the various tasks are listed as guidelines only. The apprentice shall progress by completing 6 major blocks of tasks (referred to as major milestones). It is expected that the average apprentice with no prior experience should take 3 years and require approximately 6000 hours to progress through the program. However, no apprentice may obtain a journeyman designation until they have spent at least 3 years in the program.**

Probationary Period:

The probationary period shall be the first **1,000** OJT hours of employment, or one year after the current registration to this standard, whichever is shorter.
(ORS 660.126 (g))

Ratio:

The ratio of apprentices to journey-level worker shall not be more than:

One (1) apprentice to the first **one (1)** journey-level worker on
the Jobsite.

Additional apprentices are authorized at a ratio of **one (1)** apprentice for each additional **two (1)** journey-level worker(s). (ORS 660.126 (f))

APPENDIX E: WAGE AND WAGE PROGRESSION

The average wage for those journey-level workers employed by the participating employers in this occupation on **April 26, 2023** is **\$50.27** per hour.

Period	Number of required hours	% of the journey level rate
1 st	1,000	70
2 nd	1,000	73
3 rd	1,000	76
4 th	1,000	80
5 th	1,000	84
6 th	1,000	90

APPENDIX F: WORK PROCESSES

The work processes and approximate training hours in each area are:

Work processes	Approximate hours
Milestone 1 (first period) <ul style="list-style-type: none"> • Orientation <ul style="list-style-type: none"> ○ Safety/Environmental Awareness ○ New Apprentice Orientation ○ Electric Utility System Operation ○ Safety Orientation 	1000
Milestone 2 (second period) <ul style="list-style-type: none"> • Hydro Fundamentals Part 2, Safety Regulatory Modules, Operations Skills Phase 2 <ul style="list-style-type: none"> ○ Successfully complete Hydro Operator Fundamentals Part 2 Training (75% or above required on all tasks and courses). ○ Successfully complete all Safety/Regulatory Training modules (75% or above required on all tasks and courses). ○ For ONE of the assigned plants, using plant procedures as appropriate, demonstrate proficiency in the normal and abnormal operation and inspection for all applicable Plant Series system descriptions and operating procedures. 	1000
Milestone 3 (third period) <ul style="list-style-type: none"> • Operations Skills Phase 2 - Continued <ul style="list-style-type: none"> ○ For a minimum of two additional assigned plants, using plant procedures as appropriate, demonstrate proficiency in the normal and abnormal operation and inspection for all applicable Plant Series system descriptions and operating procedures. 	1000
Milestone 4 (fourth period) <p>Note: Milestone 4 and Milestone 5 can be performed in any order (so long as Milestones 1-3 are completed) based on mutual agreement of the apprentice and General Foreman.</p> <p>Note: The agreed-upon tasks mentioned below are those tasks agreed to by collective bargaining between Local 659 of the IBEW and PacifiCorp/Pacific Power. These tasks are subject to change through revision to these standards.</p> <ul style="list-style-type: none"> • Mechanical Maintenance Skills/Repairman Tasks <ul style="list-style-type: none"> ○ Successfully complete required Mechanical Training (75% or above required on all tasks and courses) ○ Successfully complete knowledge/skills Job Performance Measures (JPMs) on the following topics: <ul style="list-style-type: none"> ▪ Lubricants ▪ Bearings ▪ Rigging ▪ Hydraulics ▪ Pipes and Valves ▪ Seals ▪ Gears ▪ Equipment Drive Components 	1000

<ul style="list-style-type: none"> ▪ Obtain CDL (Class A or Class B) ▪ Qualify to operate a minimum of 8 types of heavy equipment from the following listing: Core: Each apprentice must demonstrate competencies in the operation of the five listed pieces of equipment: <ul style="list-style-type: none"> * Backhoe * Bob Cat * Fork Lift * Centermount Crane * Dump Truck Required optional equipment: Each apprentice must demonstrate competencies in the operation of a minimum of three of the following: <ul style="list-style-type: none"> * Gradeall * Snow Cat * Dozer * Road Grader * Excavator * Articulated Snow Blower * Front-end Loader * Mobile Crane 	
<p>Milestone 5 (fifth period)</p> <ul style="list-style-type: none"> • Electrical Maintenance Skills <ul style="list-style-type: none"> o Successfully complete required Electrical Skills Training (75% or above required on all tasks and courses). o Successfully complete knowledge/skills Job Performance Measures (JPMs) on the following topics: <ul style="list-style-type: none"> ▪ Electrical Safety ▪ Basic Electricity ▪ Electrical Diagrams ▪ Circuit Breakers and Switchgear ▪ Battery Systems ▪ Troubleshooting Electrical Circuits ▪ Circuit Breakers and Fuses 	1000
<p>Milestone 6 (sixth period)</p> <ul style="list-style-type: none"> • Switching, Clearances, Final Board <ul style="list-style-type: none"> o Clearance and tagout system. o Perform a switching order as directed to: <ul style="list-style-type: none"> ▪ Isolate a Transformer ▪ Isolate a Circuit Breaker ▪ Isolate a Switchyard Bus ▪ Isolate a Transmission Line ▪ Isolate a Generator ▪ Isolate other electrical equipment as identified on the switching order o Safe operation of the following components <ul style="list-style-type: none"> ▪ Gang-operated disconnects including tagging ▪ Motor-operated disconnects including decoupling and tagging as appropriate ▪ Hook-operated fuses and disconnects including tagging ▪ Isolation of the secondary side of potential transformers including tagging 	1000

<ul style="list-style-type: none"> ▪ Isolation and grounding of capacitor banks including tagging ▪ Reclosers ▪ Drop down and draw out air circuit breakers ○ Clearances and Tagouts <ul style="list-style-type: none"> ▪ Issuance, recall, and clearing of tags and tagouts 	
TOTAL	6,000
NOTE: See policies and procedures regarding work on conductors, apparatus, and equipment energized at voltages in excess of 750 volts.	

In licensed occupations apprentices must complete the minimum required total hours prior to being referred to the license examination. (OAR 839-011-0265(2)) (For electrical licenses, ORS 479.630 & OAR 918-282-0270) (For plumbing licenses, ORS 693.060 & OAR 918-695-0140)

Apprentices must complete a total of **6,000** hours of on-the-job training. However, the committee recognizes that most apprentices will not be able to fulfill the total amount of hours specified in every work process as set forth in this standard. When an apprentice is unable to fulfill the total work hours in each work process the committee will evaluate the apprentice's knowledge, skills and abilities and provide appropriate additional related instruction to assure that competency is acquired in each work process. The evaluation and summary of the additional instruction will be noted in the apprentice's file. (OAR 839-011-0265(1))

The following is a summary of the required competencies that must be acquired in each period of the apprenticeship (milestone) prior to apprentice advancing to the next phase of the apprenticeship.

Milestone I

- **Hydro Fundamentals Part 1 and Operations Skills Phase 1**
 - **Successfully complete required Hydro Operator Fundamentals Part 1 Training (75% on all courses).**
 - **For all assigned plants, complete Operator Skills Phase 1 which includes the following:**
 - **Demonstrate proficiency with completing the inspection checklist (station rounds) and demonstrate proper apprentice (s) action for any reading or condition outside of normal**
 - **Demonstrate proficiency with performing an emergency shutdown for those conditions (as determined by a Journeyman Operator) that require a quick shutdown.**
 - **Demonstrate proficiency with inspection and operation of the Fire Protection system.**
 - **Demonstrate proficiency with inspection and operation of the Water Delivery system.**

Milestone II

- **Complete a site-specific written examination for ALL of the remaining assigned plants and attain at least a 75% on each.**
- **Be designated as "Fully Qualified in Operations" by a Journeyman Operator, General Foreman, and Production Manager on ALL of the assigned plants excluding issuing clearances or tagouts, performing switching, performing lockouts or tagouts or holds.**

Milestone III

Demonstrate:

- **Basic welding and cutting skills**
- **Proper use and care of the required handheld equipment as identified on the qualification card:**
- **Ability to operate 8 pieces of related mobile equipment:**

Core:

- **Backhoe**

- Bob Cat
- Fork Lift
- Centermount Crane
- Dump Truck

Optional:

- Gradall
- Snow Cat
- Dozer
- Road Grader
- Excavator
- Articulated Snow Blower
- Front-end Loader
- Mobile Crane

Demonstrate:

- Hauling selected equipment to include hooking up trailers, loading equipment and proper tie-down and securing of equipment
- Rigging and lifting techniques and procedures
- Concrete forming, mixing, and finishing.
- Debris removal from Trash Racks
- General Structure Maintenance and Repair
- General plumbing tasks
- Proficiency in all agreed-upon mechanical maintenance tasks designated as applicable to the Journeyman Operator Maintainer craft

Be designated as “Fully Qualified in Mechanical Maintenance” by a Journeyman Mechanic, General Foreman, and Production Manager.

Milestone V

Note: Milestone 4 and Milestone 5 can be performed in any order (so long as Milestones 1-3 are completed) based on mutual agreement of the apprentice and General Foreman.

Note: The agreed-upon tasks mentioned below are those tasks agreed to by collective bargaining between Local 659 of the IBEW and PacifiCorp/Pacific Power. These tasks are subject to change.

- Demonstrate proficiency in all agreed-upon electrical maintenance tasks designated as applicable to the Journeyman Operator Maintainer craft
- Be designated as “Fully Qualified in Electrical Maintenance” by a Journeyman Wireman, General Foreman, and Production Manager

Milestone VI

- Demonstrate proficiency on the following switchyard related tasks:
 - Understanding of clearances and tagout system.
 - Perform a switching order as directed to:
 - * Isolate a Transformer
 - * Isolate a Circuit Breaker
 - * Isolate a Switchyard Bus
 - * Isolate a Transmission Line
 - * Isolate a Generator
 - * Isolate other electrical equipment as identified on the switching order
 - Safe operation of the following components
 - * Gang-operated disconnects including tagging
 - * Motor-operated disconnects including decoupling and tagging as appropriate
 - * Hook-operated fuses and disconnects including tagging
 - * Isolation of the secondary side of potential transformers including tagging
 - * Isolation and grounding of capacitor banks including tagging

- * Reclosers
- * Drop down and draw out air circuit breaker
- o Clearances and Tagouts
 - Demonstrate proficiency in the issuance, recall, and clearing of tags and tagouts
- o Be designated as “Fully Qualified in Switching and Clearances” by a Journeyman Operator, General Foreman, and Production Manager for ALL of the assigned plants.
- o Be designated as Fully Qualified in all aspects of Operations, Mechanical Maintenance, Electrical Maintenance, Switching, and Clearance Issuance by attaining a Pass on a Final Oral Board. The Board will be chaired by the cognizant Production Manager and include a Journeyman Electrical Craft person, Journeyman Mechanical Craft Person, Journeyman Operator, Cognizant General Foreman, Hydro Area Safety Administrator, and Hydro Training Supervisor. The format and conduct of the board will allow for practical demonstrations, simulations, and oral questioning.
- o Upon successful completion of at least three years in the apprenticeship, passing the final oral Board and a score of at least 75% on the final written examination the apprentice will be completed from the program and issued a Journeyman card by the registration agency.

Note: as new systems or components are periodically added, the system listing is subject to change.

APPENDIX G: RELATED TRAINING

A minimum of **144** hours of related training shall be required during each year the apprentice is registered in the program. (ORS 660.126 (e) / ORS 660.175(2))

The following is a summary of related instruction including required class hours in each element of instruction. A committee may establish and submit clear objectives and outcomes in lieu of hours for each class subject. (ORS 660.157)

Course	Hours
The basic description of the training program is classroom training linked to On-the-Job Training (OJT).	
<u>MECHANICAL PHASE "1A" TRAINING PROGRAM OUTLINE: PROJECT INTRODUCTION</u>	
ICS-CRS - #BLOCK #21 BASIC INDUSTRIAL MATH	30
ICS-CRS-#BLOCK #22 PRACTICAL MEASUREMENTS	25
ICS-CRS-#BLOCK #23 INDUSTRIAL SAFETY	35
ICS-CRS-#2309 A&B PLANE TRIGONOMETRY	20
ICS-CRS-#5011 ELEMENTS OF CHEMISTRY	10
ICS-CRS-#5983 A&B PRACTICAL GEOMETRY	20
CRS-# 101 L&K PRINCIPLES OF HYDROPOWER	60
TOTAL	200
<u>PLANT EQUIPMENT STUDIES</u>	
1. BASIC ELECTRICAL KNOWLEDGE	
2. BASIC MECHANICAL KNOWLEDGE	
3. CO2 AND OTHER FIRE PROTECTION SYSTEMS	
4. DEFINITIONS	
5. PROJECT HOUSEKEEPING	
6. PROJECT INTERFACES, US & DC	
7. NOTIFICATION SYSTEMS	
8. SAFETY	
9. SECURITY ADMINISTRATION	
10. SUBSTATION AND INSPECTION	
<u>OJT GROUPS FOR THIS PHASE</u>	
"A-2-4" SAFETY FOR MECHANICS	
"B-1-5" PROFESSIONALISM FOR MECHANICS	
"C-1-5, 7" COMMUNICATIONS FOR MECHANICS	
"D-1-2, 4" DAM SAFETY FOR MECHANICS	
"E-4" MAINTAIN CO2 SYSTEMS	
"X-1-3" FIRE SYSTEMS	
<u>OJT SKILLS TRAINING EXERCISES</u>	
11. EYE WASH STATION USAGE	
12. NOTIFICATION SYSTEM, RADIO, TALK, ETC.	
13. PAGER SYSTEM, CODE CALL	
<u>MECHANICAL PHASE "1B" TRAINING PROGRAM OUTLINE: TRADE TOOL SKILLS</u>	
ICS-CRS---#BLOCK 24 HAND AND POWER TOOLS	70
ICS-CRS---#5004 A&B BENCH WORK TAP AND DIES	20
ICS-CRS---3521 A&B DRILLING	20
ICS-CRS---#3501 LAYOUT	10
ICS-CRS---386001-5 MACHINE LATHES	50

ICS-CRS---#386006-9	MILLING MACHINES	40
ICS-CRS---186069	PRECISION MEASURING TOOLS	20
ICS-CRS---#386016	FUNDAMENTALS OF GRINDING	10
TOTAL		240
<u>PLANT EQUIPMENT STUDIES</u>		
1. MACHINE SHOP SKILLS		
2. PRECISION TOOLS		
3. SAFETY AND FIRST AID		
4. MECHANICAL DRAWINGS AND SYMBOLS		
5. CAVITATION		
6. ROUTINE INSPECTIONS		
7. MAIN UNIT ELECTRICAL CONFIGURATION		
<u>OJT GROUPS FOR THIS PHASE</u>		
"D-2"	CONDUCT EQUIPMENT INSPECTIONS	
"M-1-5"	MACHINING FOR MECHANICS	
"N-1, 2"	POWER HAND & STATIONARY POWER TOOLS	
"W-2"	DAM MAINTENANCE AND TROUBLESHOOTING	
<u>OJT SKILLS TRAINING EXERCISE</u>		
1. SHOP HAND TOOL USE		
2. SHOP POWER TOOL USE		
3. LATHE USE, TAPERING		
4. LATHE USE, THREADING AND FLAT MILLING		
5. MILLING MACHINE SURFACE GRINDING		
6. LAYOUT, HAND AND POWWER DRILLING, TAP, DIE, REAMING		
<u>MECHANICAL PHASE "2A" TRAINING PROGRAM OUTLINE: WELDING & CUTTING SKILLS</u>		
ICS-CRS---#686001, 2	HEAT 1&2	20
ICS-CRS---#286025, 28, 30-32	WELDING	50
ICS-CRS---#286033, 53, 59, 66	WELDING	40
ICS-CRS---#6275 A&B	GAS CUTTING A&B	20
ICS-CRS---#2545	HEAT TRANFER	10
TOTAL		140
<u>PLANT EQUIPMENT STUDIES</u>		
1. PRINT VERIFICATION		
2. PREPARING AN AHA		
3. PREVENTATIVE MAINTENANCE, FEMS		
4. SHOP WELDING SKILLS		
5. SHOP CUTTING SKILLS		
<u>OJT GROUPS FOR THIS PHASE</u>		
"L-1-7"	WELDING AND CUTTING	
"J-1"	DESIGN ENGINEERING AND FABRICATION	
"D-1"	ADHERE TO 'FEMS" PROGRAM	
<u>OJT SKILLS TRAINING EXERCISE</u>		
1. ACETYLENE AND PLASMA CUTTING SKILLS		
2. SMAW & GMAW WELDING SKILLS		
3. VARIABLE POSITION WELDING		
4. STEEL PIPE WELDING		
5. TIG WELDING OF STAINLESS		
6. TIG WELDING OF ALUMINUM		
7. COPPER SOLDERING		
<u>MECHANICAL PHASE "2B" TRAINING PROGRAM OUTLINE: PIPEFITTING SKILLS</u>		
ICS-CRS---#BLOCK-D20	INDUSTRIAL PLUMBING AND FITTING	40
ICS-CRS---35581	PIPEFITTING PRACTICES	10
ICS-CRS---5886	PIPES AND FITTINGS	10

ICS-CRS---#6732	READING PIPE PRINTS	10
ICS-CRS---#2945	DUCT AND PIPING DESIGN	10
ICS-CRS---#6720	A&B READING SHOP PRINTS	20
ICS-CRS---#186E01	MECHANICAL DESIGN	50
TOTAL		150
<u>PLANT EQUIPMENT STUDIES</u>		
1. DELUGE SYSTEM		
2. DRAINAGE SYSTEM		
3. OIL SYSTEM		
4. PIPE FITTING SKILLS		
5. SEWAGE SYSTEM		
6. SPILLWAY SYSTEM		
7. SUMMER AND WINTERIZATION OF AIR AND WATER SYSTEMS		
8. VALVE IDENTIFICATION AND TAGGING		
9. WATER SYSTEMS		
<u>OJT GROUPS FOR THIS PHASE</u>		
"K-1-3"	TROUBLESHOOTING FOR MECHANICS	
"O-1-3"	PIPEFITTING FOR MECHANICS	
Q-1-3"	GATES FOR MECHANICS	
"R-1"	WATER SYSTEMS	
"S-1"	OIL TRANSFER AND STORAGE	
<u>OJT SKILLS TRAINING EXERCISE</u>		
1. PIPE FITTING 1		
2. PIPE FITTING 2		
3. PIPE FITTING 3		
4. BRAZING		
5. SPARTAN DRAIN SNAKE USE		
A score of 75% or above is required on all courses.		

Methods of related/supplemental training shall consist of the following:

- Validated distance learning curriculum specific to the occupation
Curriculum provider: Penn Foster
Certification by: Accrediting Commission of Distance Education and Training Council (DETC) recognized by US Department of Education. Also licensed by the Arizona State Board for Private Postsecondary Education and authorized to award Associate of Science and Bachelor of Science Degrees.

APPENDIX H: PROGRAM CONTACT INFORMATION

**ADMINISTRATOR/COORDINATOR Contact
Patty Muffley
Southern Oregon Electrical Utilities JATC
825 NE Multnomah ST RM 1700
Portland, OR 97232**

(503) 813-6227

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