



**STANDARDS OF APPRENTICESHIP
Adopted by**

OR SW-WA NW-CA STEAMFITTERS JATC

	(sponsor)				
<u>Skilled Occupational Objective(s):</u>	<u>SIC #</u>	<u>SOC#</u>	<u>SYMBOL</u>	<u>SUFFIX</u>	<u>Term</u>
Steamfitter & Steamfitter with LEB	1711	47-2152	0414	100 & 200	8,000 hours

SOC TITLE	Plumbers, Pipefitters and Steamfitters	LICENSE	Ltd Energy Technician - Class B
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APPROVED BY the
Oregon State Apprenticeship and Training Council (OSATC) and Recognized by the Washington State
Apprenticeship and Training Council (WSATC) under the Terms and Conditions of the Reciprocal
Agreement

REGISTERED WITH the
Apprenticeship and Training Division
Oregon State Bureau Labor and Industries
800 NE Oregon Street
Portland, Oregon 97232

APPROVAL:

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Standards Initially Recognized By WSATC:	
October 16, 2009	_____
Revised Standards Recognized By WSATC	

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By: Chair, OSATC	
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By: Secretary, OSATC	
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APPRENTICESHIP STANDARDS

The Oregon State Apprenticeship and Training Council (OSATC) has the authority 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 and only apprentices registered with or recognized by the Oregon State 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 council, such amendment(s) and such changes as adopted by the council 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 council. 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 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 & OAR 839-011 for the definitions necessary for use with these Standards.

I. GEOGRAPHIC AREA COVERED:

The sponsor only has authority to recognize training agents (employers) that maintain their principal place of business inside of the geographical area covered by these standards. Training agents that maintain their principal place of business outside of the geographical area covered by this standard may only be recognized as traveling training agents when working in geographic area covered by this standard. The Sponsor will ensure compliance with the provisions for traveling training agents and of any Reciprocity Agreement recognized by the OSATC. (See ORS 660.137 / OAR 839-011-0260 / OSATC Policy # 16)

The geographic area covered by these standards shall be as listed below for the areas in the State of Oregon.

These standards shall also cover the areas listed below in the State of Washington under the terms and conditions of the reciprocal agreement.

The following is the Jurisdictional Geographic description for UA 290 Steamfitters. These standards apply to those areas that lie within the boundaries of the State of Oregon and in the State of Washington and are supplemented by standards registered with the State of California with their respective apprenticeship councils:

Beginning at the point where the Columbia River Ship Channel enters the Pacific Ocean; thence east up the Columbia River Ship Channel to a point two and one-half miles south of the City of Woodland, Washington; thence on a straight line east to the intersection with the west boundary line of Klickitat County, Washington; thence south on the Klickitat County line to the southwest corner of Klickitat County; thence east to the point directly north of the Deschutes River; thence south to the south bank of the Columbia River; thence east along the south bank of the Columbia River to the west boundary in of Morrow County, Oregon; thence south along the west boundary of Morrow County, and east boundary of Wheeler County, Oregon, thence east along the second Standard Parallel to a point approximately five miles north of John Day, Oregon; thence directly south a point five miles east and three miles south of Burns, Oregon; thence on a airline west to Wagontire, Oregon; thence south on the west boundary of Harney County and east boundary of Lake County to the Oregon and California border; thence west to Highway 395; thence southwest in a airline to Percy, California; thence in an airline west to Mt. Hebo, California; thence northwest in an airline to where the Jackson-Klamath County line intersects the California state line; thence west on the Southern Oregon state border to the Pacific Ocean; thence north along the Oregon coastline to the ship channel of the Columbia River, the point of beginning; also all of Del Norte and Humboldt Counties of Northern California.

II. MINIMUM QUALIFICATIONS:

Minimum qualifications must be clearly stated and applied in a nondiscriminatory manner (See ORS 660.126 (1b)). Documentation must be provided for all minimum qualifications:

- Age: Must be at least eighteen (18) years or older.
- Education: Must be a high school graduate with 2.00 Cumulative GPA or above; or, have a GED of 255 points (or 2550 points for GED issued after 1-1-03); or, be a high school graduate with a GED Pretest examination score of 255 or above (2550 points for GED pretest score issued after 1-1-03).
Must have completed one full year of high school algebra, integrated math 2, or equivalent post-high school algebra course (s) with a grade of 'C' or better or must present current math placement test results from a community college facility indicating a placement level beyond high school level algebra.
- Physical: None
- Testing: None
- Other: None

Note: See, § X, ¶ 6

III. CONDUCT OF PROGRAM UNDER OREGON EQUAL EMPLOYMENT OPPORTUNITY IN APPRENTICESHIP PLAN (OAR 839-011-0200):

Standards must include the Oregon Equal Employment Opportunity in Apprenticeship and Training Pledge (See OEEOA Section 4)

THE SPONSOR HEREBY ADOPTS:

"The recruitment, selection, employment and training of apprentices during their apprenticeship shall be without discrimination because of race, sex, color, religion, national origin, age, disability or as

otherwise specified by law. The sponsor shall take positive action to provide equal opportunity in apprenticeship and will operate the apprenticeship program as required by the rules of the Oregon State Apprenticeship and Training Council and Title 29, Part 30 of the Code of Federal Regulations."

Sponsors with five (5) or more apprentices in an apprenticeable occupation must adopt an Equal Employment Opportunity Plan and Selection Procedures and submit the plans for Council approval. (See OAR 839-011-0200 / Sections 5 & 6 of the Oregon Equal Employment Opportunity in Apprenticeship (OEEOA) / Council policy # 23).

A. SELECTION PROCEDURES:

The committee shall select apprentices from a pool of eligible applicants according to the following procedure: (ORS 660.137 (3) / OEEOA section 6)

1. 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.
2. Application notice and schedule:
 - (a) The committee will accept and process applications as the need arises in regions defined in the committee's Geographic Policy and on dates specified by the committee in accordance with these Standards, its Affirmative Action Work Plan, its policies and procedures.
 - (b) Applications shall be considered from persons who meet the following criteria:
 - i. Qualified applicants who meet the minimum qualification of this program, currently hold, in good standing, journeyworker certification in the Steamfitter trade as defined by the United Association, but who do not currently hold a State of Oregon, Limited Energy Class B license; and,
 - ii. Qualified applicants admitted through an open application.
 - (c) Steamfitter without LEB – Qualified Status Applications:
 - i. Applicants described in § III, ¶ A., 2., b., i., who, at any time, submit an application, on a form provided by this committee, will be placed at the top of the Out of Work List according to the date the committee received the completed application.
 - ii. At the time of registration, the Committee shall assign applicants to the Electrical Major, under these Standards.

Note: Prior to approval of a registration agreement for any applicant selected by favor Steamfitter without LEB status, the committee shall address in its minutes, the impact, if any, on the Committee's Affirmative Action Plan, its Goals and Timetables, and the Equal Opportunity Pledge.
3. Non-qualified applicants:

Applicants who fail to meet the minimum qualifications will be notified in writing; notification will include the reason for rejection, the requirements for admission to the eligibility pool, and the appeal rights available to the applicant.
4. Pool of eligibles:
 - (a) The applications of all persons who apply in an open application period and meet minimum qualifications, will be scored and ranked using an interview system.
 - (b) Qualified applicants, who enter through open application, will be placed in a pool of

- eligibles;
 - placement will be in rank order from highest to lowest cumulative score;
 - upon placement in the pool of eligibles, the applicant will select geographic areas within which the applicant will accept dispatch;
 - from the pool of eligibles, the committee will move ranked applicants to the Accepted for Apprenticeship List pursuant to these standards and committee policies and procedures.
 - (c) Applicants placed in the ranked pool of eligibles, or moved to the Accepted for Apprenticeship List, will be retained on the list for a period of 2 years measured from the date the applicant is placed in the pool of eligibles.
 - (d) Applicants in the ranked pool of eligibles, or on the Accepted for Apprenticeship List, must keep the Committee informed of current address and telephone contact number.
 - (e) Persons in the ranked pool of eligibles, or on the Accepted for Apprenticeship List may be removed from the list:
 - at the request of the person;
 - in accordance with the Committee Initial Employment Policy and Procedures.
5. Accepted for Apprenticeship List:
- a. All apprentices will be selected from the Accepted for Apprenticeship List in rank order and in conjunction with Committee policies and procedures.
 - b. The maximum number of applicants on this Accepted for Apprenticeship list shall be 20% of the 12-month average apprentice number registered by the committee in the preceding 60-month period or 10 applicants, whichever is the greater number. The List may be replenished only at such time as the number of applicants on it falls below 50% of the maximum number permitted.
 - c. Applicants on this list will retain their position on it until registered in accordance with Committee policies and procedures but not longer than the remainder of eligibility under § III, A, ¶ 4 (c) of these Standards.
 - d. Prior to dispatch from the Accepted for Apprenticeship List to a training agent, each person on that list will be required to (1) submit to a test for the presence of illegal controlled substances in the person's body, and (2) to a background check for felony criminal convictions.
 - a positive test for illegal controlled substances may result in the exclusion from participation in the program;
 - an applicant with a felony criminal conviction may participate in the program, but the nature of the conviction may prevent employment at certain job sites.
 - e. These tests or checks will be arranged and paid by the Committee. Any results of such tests or checks will be shared with an applicant under its written procedures, but all documentation and results become the property solely of the Committee, which shall maintain them as confidential records.
 - f. If the Committee excludes a person from program participation under this section, it will provide written notice of the basis for the exclusion, offer the person an opportunity to challenge the test or check results, offer an opportunity to be heard on the merits of the exclusion and inform the person of any opportunity for appeal.

EXCEPTIONS

1. APPRENTICE TRANSFER

The committee shall allow transfer of sponsor's registered NW California Plumber apprentices to Oregon.

2. EXPERIENCED APPRENTICE

Upon the following terms, the committee shall consider an application for readmission from a former apprentice in the program:

- The applicant has made no other application for readmission to this program;
- Not less than 180 days have passed since the committee's formal cancellation decision;
- Application for readmission has been made on a form obtained from the committee and signed by the applicant.
- The applicant meets the program Minimum Qualifications;
- The applicant has met the travel and geographic requirements of the program.

An applicant admitted under this exception will be placed at the bottom of the out-of-work list.

3. NEW TRAINING AGENT

If an employer has not participated in the training of an apprentice under ORS Chapter 660 for at least two years prior to seeking entry or re-entry into the apprenticeship program, the employer may select as his/her initial apprentice, without going to the pool, those bona fide employees who have been on his/her payroll for at least 480 hours prior to the employer's application for an apprentice and who meet the minimum qualifications for entry into the trade or craft. Once the initial selection of apprentices has been made, the employer is thereafter restricted to a selection from applicants in the pool of eligibles established by the sponsor which has jurisdiction in this area.

6. EMPLOYER SELECTION

From the Accepted for Apprenticeship List only, the committee may dispatch one applicant, by name, to a training agent. The next apprentice dispatched to that training agent must be selected from the top of the Accepted for Apprenticeship List. Thereafter, apprentices dispatched to that training agent may be chosen by the committee alternating between the top of the Accepted for Apprenticeship List and by name from the Accepted for Apprenticeship List.

9. CONTRACTUAL REQUIREMENT

A training agent, able to document the existence of a valid contractual requirement for specific percentages of minority and/or female apprentices on the job, may request that the sponsor pierce the Ranked Pool of Eligibles to reach the top minority or female qualified applicant(s). The sponsor will record on the registration agreement, and in its minutes, the use of this exception and retain a copy of applicable bid specifications.

11. NATIVE AMERICAN PREFERENCE

Individuals enrolled as members of an Indian Tribe or Nation, and/or Qualified Native American applicants referred by a Tribal Employment Rights Office (TERO), who otherwise meet the minimum qualifications of these Standards, may be selected for dispatch without regard to existing selection procedures according to ranking established by a TERO if the work to be performed is in a geographic area on or near an existing Indian Reservation, Lands or Nation or has been funded by, or at the direction of, an Indian Tribe or Nation.

12. VETERANS ENTRY

Upon the following terms, the committee may, at any time, consider an application for admission from a Veteran of the United States armed forces:

- The applicant must meet the minimum qualifications of this program;
- The applicant must have been a member of the Regular Service, discharged within the preceding 24 months, and possess a DD-214 indicating an Honorable Discharge;
- Or, the applicant must have been a member of the Selected Reserve, or Individual Ready Reserve, discharged within the preceding 24 months and possess a DD-214 indicating an Honorable Discharge;
- Or, the applicant must have been a member of the National Guard, discharged within the preceding 24 months and possess a DD-214 indicating an Honorable Discharge.

Individuals qualifying under this exception may seek direct entry and, if registered, will be placed at the bottom of the out of work list.

15. OTHER (TRADE SPECIFIC EXPERIENCE – WELDER CERTIFICATION)

Upon the following terms, the committee may, at any time, consider an application for admission from an applicant able to document curriculum completion of an accredited technical training school equal to that approved by the International Pipe Trades – Joint Training Committee (IPT-JTC),

- The applicant must meet the minimum qualifications of this program;
- The technical training school, when the applicant matriculates, shall have been certified by a nationally recognized industry association;
- The applicant must submit to, and obtain a passing score in, a validated objective examination to verify skill level;
- If registered under this exception, the applicant shall be granted credit for experience in the Steamfitter trade based upon the following:
 - demonstrated skills;
 - documented classroom training;
 - documented experience;
 - results of the objective examination.
- The Committee will retain all evaluation data consistent with ORS 660, et seq.;

The applicant will be registered and placed at the top of the out of work list.

The Committee will evaluate each registration to the program under this procedure and address in its Minutes, the impact, if any, on the Committee's Affirmative Action Plan, its Goals and Timetables, and Equal Employment Opportunity Pledge.

B. EQUAL EMPLOYMENT OPPORTUNITY PLAN:

1. 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. (See OAR 839-011-0200 / OEEOA sections 5 a, b and c)
2. 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. (OEEOA section 5 & 8)
3. Numerical goals and timetables for the selection of minority and female apprentices shall be included with the sponsor's annual updated steps. (OEEOA section 5 & 8)

4. The sponsor hereby adopts the following activities in order to enable it to meet its affirmative action obligations.

5.

1: DISSEMINATE INFORMATION

Dissemination of information concerning the nature of apprenticeship, requirements for admission to apprenticeship, availability of apprenticeship opportunities, sources of apprenticeship application, and the equal opportunity policy of the sponsor. For programs accepting applications only at specified intervals, such information shall be disseminated at least 30 days in advance of the earliest date for application at each interval. For programs customarily receiving applications throughout the year, such information shall be regularly disseminated but not less than semiannually. Such information shall be given to Council, local schools, employment offices, women's centers, outreach programs and organizations that can effectively reach women and minorities, and shall be published in newspapers circulated in the minority community and among women, as well as the general areas in which the sponsor operates.

2: PARTICIPATE IN ANNUAL WORKSHOPS

Participate in annual workshops to familiarize educators, career counselors, employment service representatives, and other appropriate personnel with apprenticeship in general as well as current opportunities.

3: PREPARE STUDENTS FOR ENTRY INTO APPRENTICESHIP

Cooperate with local schools and vocational education systems to develop programs for preparing students to meet the standards and criteria required to qualify for entry into apprenticeship programs.

4: INTERNAL COMMUNICATION

Communicate the equal opportunity policy in a manner to foster understanding, acceptance and support among the committee's members, training agents, and apprentices and to encourage those people to take the action necessary to meet the committee's affirmative action commitments.

5: OUTREACH

Engage in outreach programs for the positive recruitment and preparation of potential applicants for apprenticeship. The committee will identify other apprenticeship program sponsors and community organizations with whom they may collaborate. The sponsor will seek out and support programs to prepare and encourage women to enter traditionally male occupations.

7: UTILIZE JOURNEY WORKERS IN AFFIRMATIVE ACTION

Include journey level workers in the implementation of the affirmative action plan.

8: GRANT ADVANCED STANDING OR CREDIT EQUALLY FOR ALL APPLICANTS

Grant advanced standing or credit on the basis of previously acquired experience, training skills, or aptitude for all applicants equally.

10: PREVENT ILLEGAL DISCRIMINATION

Take other appropriate action to ensure that decisions regarding recruitment, selection, employment, and training of apprentices are job-related and without illegal discrimination because of race, color, religion, national origin, disability, age, or sex.

C. DISCRIMINATION COMPLAINTS:

1. Any apprentice or applicant for apprenticeship who believes they have been discriminated against with regards to apprenticeship by the committee may file a complaint. (See OAR 839-011-0200 / OEEOA Section 11)
2. 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.
6. Any such complaint must be filed with the Director of the Apprenticeship and Training Division (Secretary of the OSATC) in writing within 180 days of the alleged illegal discrimination or specified failure to follow the equal opportunity requirements.
7. 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.
8. For complaints dealing with program operations see section X of this document.

IV. TERM of APPRENTICESHIP:

1. The term of apprenticeship will not be less than 2,000 hours of work experience in the apprenticeable occupation identified in this Standard. (See ORS 660.126 (d))
2. The term of apprenticeship must be stated in hours unless otherwise required by a collective bargaining agreement, civil service or other governing regulation. (See ORS 660.126)
3. 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. (See ORS 660.137 (4))
4. 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. (See ORS 660.142)

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

The term of apprenticeship shall be ~~8,000~~ hours of employment.

V. INITIAL PROBATIONARY PERIOD:

1. All apprentices are subject to an initial probationary period, stated in hours of employment during this time; an apprenticeship agreement may be terminated without cause. It is the period following the effective date of the apprentice's current registration into the program and during which the apprentice's appeal rights are restricted. (See ORS 660.126 (1g))
2. The initial probationary period must be reasonable in relationship to the full term of the apprenticeship unless otherwise required by Civil Service, CBA or law. (the registration agency recommends that this not exceed twenty percent (20%) (See ORS 660.126 (1g))
3. 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. (See ORS 660.126 (1g) & ORS 660.060 (6))
4. An appeal process is available to apprentices who have completed the initial probationary period. (See ORS 660.060 (6) & (7) and section X of this standard)

The probationary period shall be the first ~~one (1)~~ year - 2,000 OJT hours of employment after the current registration to this standard. (See ORS 660.126 (g))

VI. RATIO OF APPRENTICES TO JOURNEY LEVEL WORKERS:

1. There shall be a maximum numeric ratio of apprentices to journey-level workers consistent with proper supervision, training, safety and continuity of employment. (See ORS 660.126 (1f))
2. The ratio shall be specifically and clearly stated as to its application to the job site, workforce, department, shift, plant or combination therein. (See ORS 660.126 (1f))
3. 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. (See ORS 660.126 (1f), OAR 839-011-0140 (2g), OAR 839-011-0360)

The ratio of apprentices to journey-level worker shall not be more than ~~one (1)~~ apprentice to the first ~~one (1)~~ licensed journeyman in full employment: for the first ~~two (2)~~ apprentices ~~in~~ ~~the shop and on the job~~ in order to assure adequate training and supervision. Additional apprentices are authorized at a ratio of ~~one (1)~~ apprentice for each additional ~~three (3)~~ licensed journey-level workers. (See ORS 660.126 (f))

On cross country mainline petroleum pipeline projects the number of apprentices shall not exceed a maximum ratio of one apprentice to one journeyman steamfitter in full employment on the job.

VII. APPRENTICE WAGES and WAGE PROGRESSION:

1. 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. (See ORS 660.126 (1h))
2. Wage progressions shall be indicated in hourly or monthly periods (the registration agency recommends the use of hour periods) set by the Sponsor. (See ORS 660.126 (h))
3. The entry wage will not be less than the federal or state minimum wage rate, whichever is higher. (See ORS 660.142 (4))
4. The wage listed in this standard at all periods establishes a minimum and a higher wage may be required by other applicable federal law, state law, respective regulations, or by a collective bargaining agreement. (See ORS 660.126 (1h), ORS 660.137 (6), ORS 660.142 & OAR 839-011-140 (2f))
5. 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. (See ORS 660.137 (6))
6. Upon approval by the Director, the Division will notify all training agents and apprentices of the new wage. (See ORS 660.142 (2))

The average wage for those journey-level workers employed by the participating employers in this occupation on **April 1, 2010** is \$ **35.69** per **hour**.

Period	Number of required hours	% of the journey level rate
1	800	35
2	800	45
3	800	50
4	800	55
5, See Note 3 below	800	60
6	800	65
7	800	70
8	800	75
9	800	80
10	800	85

VIII. WORK PROCESSES:

1. The apprentice shall receive the necessary instruction and experience to become a journey-level worker versed in the theory and practice of the occupation. (See ORS 660.155 / ORS 660.157 / OAR 839-011-0360)
2. The following is a condensed schedule of work experience that every apprentice shall follow as closely as conditions will permit. (See ORS 660.126 (1c) OAR 839-011-0360; OAR 839-011-0140)

NOTE 1: Work Progress Reports (WPR) shall distinguish between electrical and non-electrical work process hours.

NOTE 2: The Committee shall dispatch an apprentice for work processes involving electrical applications only to those employers who have the appropriate valid electrical license to perform the work to be supervised.

NOTE 3: An apprentice shall elect a major course of advanced progress in the program. This election shall be made prior to advancement to Sixth (6th) Period. The major course declaration shall be considered by the Committee not more than 60 days subsequent to notice of election by the apprentice. The declaration of a major will be accepted by the Committee based upon its policies and implementing procedures.

Work processes	Approximate hours
Mechanical Applications – Basic Steamfitter Skills:	
a. Steam heating systems and equipment	625
b. Air conditioning & refrigeration systems & equipment	1,000
c. Process systems and equipment	1,000
d. Welding processes	1,000
e. Stock Room & Materials	125
f. Trouble shooting & Maintenance	250
Subtotal	4,000
Steamfitter with Advanced Mechanical Applications (Suffix 2):	
a. Steam heating systems and equipment	875
b. Air conditioning & refrigeration systems & equipment	500
c. Process systems and equipment	1,500
d. Welding processes	1,000
e. Stock Room & Materials	125
Subtotal	4,000
Steamfitter with Advanced Electrical Applications (Suffix 1):	
a. Limited energy installations, including: cables & supports, wire pulling, splices, conduit, flex tray & duct, control panels & controls, wiring devices, removal & finish work, stock room & materials, overhead & underground	1,750
b. Troubleshooting & maintenance	250
c. Occupation-specific applications, including:	2,000
1. Communications systems, including data telecommunication, intercom, paging	
2. Specialized control systems, including HVAC, medical, boiler, clock, instrumentation and welding	

	Sub Total	4,000
	Total	8,000

NOTE: The committee realizes that the completion of 8,000 hours of on-the-job training is the ideal, but 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.

IX. RELATED/SUPPLEMENTAL INSTRUCTION:

1. 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. (See ORS 660.126 (1e))
2. 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. (See ORS 660.137)
3. 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. (See ORS 660.157 (4))
4. 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. (See ORS 660.157 (2a))
5. Related instruction activities must be at the direction of a qualified instructor. (See ORS 660.157 (3))

Methods of related/supplemental training must consist of one or more of the following: (See ORS 660.157)

d. Community College;

e. Training trust;

A minimum of 216 hours of related training shall be required during each year the apprentice is registered in the program. (See ORS 660.126 (e))

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. (See ORS 660.157)

Related training must cover the following subjects and must be completed with a grade of 'C' or better for graded classes or 'Pass' for non-graded classes. (see OAR 918-282-0170 to - 0365)

Course	Hours
I. Job Safety and Health	68
a. First Aid CPR	
b. OSHA 10	
II. Related Math and Science	108
a. Applied Trigonometry	
b. Pipe Layout	
c. Related Physics and Chemistry	
III. Welding	144
a. Oxy-acetylene Cutting and Welding	
b. Soldering and Brazing	
c. SMAW/GTAW Welding	
IV. Drawing and Interpretation	108
a. Isometric Drawing	
b. Pipe Drafting and Blueprint Reading	
c. Layout	
V. HVAC	108
a. Air Conditioning	
b. Refrigeration	
c. Properties of Air	
VI. Steam and Hydronic Heating/Cooling	108
a. Pneumatic Controls	
b. DDC	
VII. Miscellaneous Related Topics	148
a. Rigging and Signals	
b. Tube Bending	
c. Builders Level/Transit	
d. Pumps	
e. High Purity Piping	
f. Materials, Pipe, Fittings, and Hangers	
	Basic Mechanical Subtotal 792
ADVANCED MECHANICAL INSTRUCTION ELEMENTS	
VIII. Additional hours based upon industry and individual apprentice needs.	
	Advanced Mechanical Subtotal 288
Basic and Advanced Mechanical (Suffix 2)	Total 1080
ELECTRICAL RELATED INSTRUCTION ELEMENTS	
A minimum of 144 hours to include all of the following components:	
a. Electrical mathematics	
b. Safety & accident prevention	

c. Care & use of hand & power tools			
d. Blueprint reading & electrical symbols			
e. Introduction to the National Electrical Code			
f. Electrical fundamentals & basic theory, including AC & DC			
g. Electrical measuring devices			
h. Wiring methods			
i. Related electrical statutes & rules			
j. Fundamentals of electronics			
k. Transformers			
l. Lighting circuits			
m. Basic mechanics; applied physics and theory			
A minimum of 144 hours to be distributed among the following components:			
a. Communication systems, including data telecommunication, intercom, paging			
b. Specialized control systems, including HVAC, medical, boiler, clock, instrumentation			
	Electrical subtotal	288	
Basic Mechanical and Electrical Instruction (Suffix 1)		Total	1080
Electrical Program Objectives: Each local committee will establish measurement tools to verify that each apprentice has met the minimum competencies in each component listed below prior to referral to the electrical licensing examination:			
a. Demonstrate math and algebra skills as they relate to the electrical trade			
b. Demonstrate basic rules of safety and how they affect all people on the job			
c. Demonstrate proper care and use of hand and power tools used in the electrical trade			
d. Demonstrate working knowledge of architectural and electrical blueprints, including electrical symbols			
e. Identify NEC articles that apply to assigned tasks			
f. Demonstrate problem-solving with series and parallel AC and DC circuits			
g. Perform system measurements testing and calibration			
h. Demonstrate knowledge of low voltage structure wiring system design and installation			
i. Demonstrate knowledge of Oregon electrical statutes and rules			
j. Identify basic electronic components used in limited energy installations			
k. Demonstrate knowledge of transformer theory and identify types of transformers			
l. Demonstrate basic physical laws and how they relate to the electrical trade			
m. Demonstrate basic knowledge of communication systems, including data telecommunication, intercom, and paging systems			
n. Demonstrate basic knowledge of specialized control systems, including HVAC, medical, boiler, clock, and instrumentation control systems.			

X. ADMINISTRATIVE/DISCIPLINARY PROCEDURES:
 See: ORS 660.120 OAR 839-011-0073

1. Local committee rules or policies and any employment requirement such as driver's license, drug test etc. will be located in this section.
2. 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. (See ORS 660.137 (4))

3. During disciplinary probation the committee may withhold periodic wage advancements, suspend or cancel the apprenticeship agreement, or take other disciplinary action. (See ORS 660.137 (4))
4. The apprentice has the right to file an appeal of the committee's disciplinary action with the Director of the Apprenticeship and Training Division. (See Ors 660.137 (4))
5. Complaint and Appeal Procedures:
 - a. Each committee shall adopt and submit complaint review procedures for Division approval.
 - b. All approved committees are expected to administer the program's approved complaint review process in a fair and consistent manner. (See ORS 660.120, ORS 660.060 & OEEOA Section 9)
 - c. Complaints that involve matters covered by a collective bargaining agreement are not subject to the complaint review procedures in this section. (See ORS 660.126 (2))
 - d. After the initial probationary period the apprenticeship agreement may be canceled by a written request from the apprentice. (See ORS 660.126 (1g) ORS 660.060 (7))
 - e. 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. (See ORS 660.060 (7))
 - i. Due notice and a reasonable opportunity for correction must be provided to the apprentice.
 - ii. Upon suspension a written notice must be provided to the apprentice and to the Apprenticeship and Training Division.
 - iii. Upon cancellation a written notice must be provided to the apprentice and to the Apprenticeship and Training Division.
 - f. Each committee shall utilize the following procedures and time lines 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. (See ORS 660.060 (8))
 - i. At least 22 days prior to potential disciplinary action by a committee
 - o 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
 - o The decisions are effective immediately upon committee action

XI. 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.

1. The committee is the policymaking and administrative body responsible for the operation and success of this Apprenticeship program.
2. 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).
3. Sponsors must develop policies and procedures for committee operations (ORS 660.060 (8), ORS 660.135, ORS 660.137, OAR 839-011-0170). 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.
4. Committees must convene meetings at least semi-annually that are attended by a quorum of committee members as defined in the approved Standards. (See ORS 660.137 (4))
 - a. A quorum for a local joint or trade committee shall consist of at least two (2) members representing the employers and two (2) members representing the employees. (See ORS 660.135 (3), ORS 660.145)
 - b. Conference call meetings may be conducted in lieu of regular meetings but must not exceed the number of attended meetings during a calendar year and may not authorize disciplinary action of apprentices. (See ORS 660.060 (8))
 - c. Minutes of all meetings must be submitted to the Apprenticeship and Training Division within 10 working days of the meeting. (See OAR 839-011-0170)
5. Program Operations (ORS 660.135, ORS 660.137, OAR 839-011-0170, OAR 839-011-0200):
 - a. 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.
 - i. These records include, but are not limited to
 - o Selection of applicants
 - o Administration of the apprenticeship program
 - o Affirmative action plans
 - o Documentation necessary to establish a sponsor's good faith effort in implementing its affirmative action plan
 - o Qualification standards
 - b. Records required by the Oregon Equal Employment Opportunity in Apprenticeship rules (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.

- c. The following must be submitted by all programs through the Apprenticeship Representative assigned to assist the committee:
 - i. Apprenticeship Registration Agreement – within the first 90 days of employment as an apprentice. (See ORS 660.020, OAR 839-011-0088) (In licensed occupations registration must occur prior to employment in the trade)
 - ii. Committee Minutes – within 10 working days of the meeting. (See OAR 839-011-0170)
 - iii. Authorized Training Agent Agreements – within 10 working days of committee action to approve the training agent. (ORS 660-020)
 - o Interim recognition may be authorized by committee policy but may not exceed 90 calendar days.
 - o Any recognition of a training agent prior to formal action of the committee must be in conformance with the committee's council approved policy.
 - iv. Revision of Occupation Standards - as necessary, no later than 45 days prior to OSATC meeting. (See OAR 839-011-0030) (Programs should review their Standards at least annually)
 - o Forms are available from the Apprenticeship Representative. 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.
 - v. Revision of Committee Member Composition as necessary (included in committee minutes). (See OAR 839-011-0074)
 - vi. Average Journey Level Wage – at least annually or whenever changed (included in minutes and by letter to the Director summarizing how the average wage was determined). (See ORS 660.137 (6), ORS 660.142)
 - vii. Authorization of Signature - as necessary (See ORS 660.135 (4))
 - viii. Authorization for issuance of initial license may be granted after the committee is found to be in compliance for operational purposes (See Council Policy #22)
- d. Adopt, as necessary or as directed, local program policies and procedures for the administration of the apprenticeship program in compliance with this Standard. (See ORS 660.060 (8), ORS 660.120 (2), OAR 839-011-0073)
 - i. Policies must be submitted to the OSATC for review and approval.
 - ii. Procedures must be submitted for Division (ATD) approval and inclusion by reference in this Standard prior to implementation.

6. Apprentice Management:

- a. 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. (See 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)
- b. 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 90 days of employment as an apprentice. (See ORS 660.020 (1), ORS 660.060, OAR 839-011-0088)
- c. The Apprenticeship and Training Division must be provided a copy of the committee minutes approving any change of disposition or modification of the Registration Agreement within 10 working days of the committee meeting. (See OAR 839-011-0170)
 - i. 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.
- d. Rotate apprentices in the various processes of the skilled occupation to ensure the apprentice is trained to be a competent journey-level worker. (See ORS 660.137 (2c), OAR 839-011-0265.
- e. 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. (See ORS 660.137 (4))
- f. The evidence of such action will be the record of the apprentice's progress on the job and during related/supplemental instruction
 - i. 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."
- g. The committee has the obligation and responsibility to provide insofar as possible, reasonably continuous employment for all apprentices in the program. (See ORS 660.126, ORS 660.020)
 - i. 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.

- ii. If, for any reason, a layoff of an apprentice occurs, the Apprenticeship Agreement will remain in effect unless canceled by the committee.
 - h. 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. (See ORS 660.126 (i))
 - i. The committee will hear and adjust all complaints of violations of apprenticeship agreements. (See ORS 660.137)
 - j. 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. (See ORS 660.137, ORS 660.205)
7. Training Agent Management:
- a. Offer training opportunities on an equal basis to all employers and apprentices. (See OAR 839-011-0084)
 - b. Grant equal treatment and opportunity for all apprentices through reasonable working and training conditions and apply those conditions to all apprentices uniformly. (See OAR 839-011-0200, Council Policy # 13)
 - c. Provide training at a cost equivalent to that incurred by currently participating employers and apprentices. (See OAR 839-011-0084)
 - d. An employer shall not be required to sign a collective bargaining agreement or join an association as a condition of participation. (See OAR 839-011-0162)
 - e. Determine the adequacy of an employer to furnish proper on-the-job training in accordance with the provisions of these Standards. (See ORS 660.137)
 - f. 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. (See ORS 660.137)
 - g. Submit approved training agent agreements to the Apprenticeship and Training Division within 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. (See OAR 839-011-0170)
 - h. 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. (See ORS 660.137)

- i. 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. (See OAR 839-011-0170)

8. COUNCIL REQUIRED POLICIES: (See ORS 660.120 - ORS 660.137)

a. Credit for prior experience

The committee will grant credit for previous experience based on the knowledge, skills, and abilities of the apprentice.

b. OJT requirements (hours, work processes, rotation/partial rotation, monthly progress reports, timelines, applicable penalties)

The apprentice shall work for the approved training agent as assigned by the committee and shall record work hours.

c. Related training requirements (attendance, grades)

The apprentice must attend and satisfactorily complete classroom instruction and self study education (a.k.a. related training) as directed by the committee.

d. Complaint procedures

The committee will promptly and fairly resolve any complaints brought to its attention.

e. Process for the review and evaluation of apprentice progress

The committee will regularly review and evaluate the progress of each apprentice as to job performance and related instruction.

f. Advancement requirements (re-rates, completions)

The committee will advance the apprentice to the next level in the wage progression when the apprentice demonstrates the required knowledge, skills, and abilities. The committee will incorporate into decisions on re-rates and advancement, requirements relevant to selection of a major by the apprentice.

g. Disciplinary process (appearances, holds, cancellations)

The committee will take corrective action for any failure to satisfy program requirements.

h. Training agent requirements (approval, discipline, removal)

The committee will recognize the employer as an approved training agent when (and so long as) the employer demonstrates that it meets all qualifications established by the committee.

i. Traveling training agent policy

Approved training agents from other jurisdictions must meet this committee's training agent requirements to be approved as a traveling training agent.

j. Initial employment policy

An applicant who has been placed in the ranked pool shall be afforded a reasonable opportunity for employment and shall only be removed from the pool in accordance with the committee's published procedures.

k. Placement procedures for out-of-work apprentices

All unemployed apprentices in good standing with the committee will be given the opportunity to be re-employed as soon as possible and prior to indenturing new apprentices. In addition, dispatch to employment by the committee will be based upon the major and licensure status of the apprentice, the work processes to be performed and availability of supervising journeyworkers with licensure status appropriate to the work processes to be performed.

l. License requirements, including exam referral and completion requirements (for licensed trades only)

The committee will ensure that all apprentice training satisfies the requirements of the appropriate certification and/or license.

9. Optional Policies

a. Apprentices may request leaves of absence/suspension in accordance with committee procedure.

b. A principal committee member who fails to attend three (3) consecutive committee meetings will be deemed inactive and subject to removal. (See OAR 839-011-0078)

c. The committee may grant readmission to the program, under Exception 2 to the Selection Procedures, only upon findings that meet the benchmarks set out in the committee procedures at § 1.07, et. seq.



d. The committee shall require the declaration of a major by an apprentice not later than the close of the 5th term and record the decision to accept or reject the declaration in its Minutes.

10. Composition of Committee:

a. 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. (See ORS 660.135; OAR 839-011-0074)

- b. 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. (See ORS 660.145; OAR 839-011-0074)
- c. Employee representatives shall not be supervisors as defined by the National Labor Relations Act (as amended). (See OAR 839-011-0074)
- d. Employee representatives shall be skilled practitioners of the trade, except;
- e. A labor organization which is the recognized bargaining representative may designate elected representatives as employee members. (See ORS 660.135 & OAR 839-011-0074)
- f. 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.
- g. Committee members or officers may be removed for failure to abide by ORS 660 or the rules and policies of the council or committee. (See OAR 839-011-0078)

The program administered by this committee is a:  JATC 
(See ORS 660.135) or (ORS660.145)

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

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

XII. SUBCOMMITTEE:

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

XIII. TRAINING DIRECTOR/COORDINATOR/ADMINISTRATOR/CONTACT PERSON:

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.



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