



Teri Gardner 11-27-19

To: WSATC

07/01/2019

Since 2005, Tradesmen Electric has been committed to training electricians utilizing JATC. A recent change in the state law eliminated WA state trainees and replaced the requirements with apprenticeship mandates. This will raise the bar of training and pass rates for the 01 journey card. Tradesmen is excited to be on the front lines with apprentices already approved and ready to learn in a controlled atmosphere here at our shop. We are dedicated with over a 100 combined years of experience in this vast electrical field. It will be our pleasure to continue working with WA state as we train our future.

Thank you for considering our charter this year.

With Warm Regards,

Tradesmen Apprenticeship & Comprehensive Training

President, Steven Niemi

A handwritten signature in black ink, appearing to read 'S. Niemi', is written over the printed name.

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



REQUEST FOR APPROVAL OF PROPOSED STANDARDS

REVISED
 4:44 pm, Sep 10, 2019
 RECEIVED
 By Brittany Chapman at 1:05 pm, Aug 28
 L&I apprenticeship coordinator

TO: Washington State Apprenticeship & Training Council

FROM **Tradesmen Apprenticeship & Comprehensive Training** *Teri Gardner 11-27-19*

NAME OF PROGRAM STANDARDS

Check appropriate box:

- Committee Plant OJT

OCCUPATION(S):	HOURS:	SOC #:
Inside Wireman (01)	8000	47-2111.00

Authorized Signatures:

Chair: 	Approved by: Washington State Apprenticeship & Training Council
Secretary 	Secretary of Council
Date: 09/10/2019	Date:

Teri Gardner 11-27-19
Brittany Craighead 12-5-19
Teri Gardner 12-5-19



APPRENTICESHIP PROGRAM STANDARDS
adopted by

TRADESMEN APPRENTICESHIP & COMPREHENSIVE TRAINING

(sponsor name)

<u>Occupational Objective(s):</u>	<u>SOC#</u>	<u>Term [WAC 296-05-015]</u>
INSIDE ELECTRICIAN	47-2111.00	8000 HOURS



APPROVED BY
Washington State Apprenticeship and Training Council
REGISTERED WITH
Apprenticeship Section of Fraud Prevention and Labor Standards
Washington State Department Labor and Industries
Post Office Box 44530
Olympia, Washington 98504-4530

APPROVAL:

Provisional Registration

Standards Last Amended

Permanent Registration

By: _____
Chair of Council

By: _____
Secretary of Council

Tradesmen Apprenticeship & Comprehensive Training

INTRODUCTION

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

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

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

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

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

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

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

*All sponsor inserted language must meet or exceed minimum requirements as established in the Inside Wireman (01) Minimum Guideline Standard.

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Sponsor Introductory Statement (Required):

Tradesmen Apprenticeship & Comprehensive Training focuses on the core values of excellence in construction. Integrity, communication, quality, reliability, and respect govern our leadership and commitment to training every apprentice toward a successful career as a journey level electrician.

These Standards, created in partnership with Washington State Department of Labor & Industries, outline the program for training apprentices in the electrical trade; along with professionalism, safety, installation and service.

I. GEOGRAPHIC AREA COVERED:

The sponsor must train inside the area covered by these standards. If the sponsor wants to train outside the area covered by these standards, the sponsor must enter a portability agreement with a sponsor outside the area, and provide evidence of such an agreement for compliance purposes. Portability agreements permit training agents to use apprentices outside the area covered by the standards. Portability agreements are governed by WAC 296-05-009. The WSATC may consider the ability to deliver RSI, demonstrated work history, and history of adherence to electrical rules and laws in the proposed Geographic Area.

These Standards shall cover the counties of Clark, Cowlitz, Skamania, and Lewis in the state of Washington.

II. MINIMUM QUALIFICATIONS:

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

Age: **Meet the minimum age requirement of 18 at the time of application. Government issued Proof of age required.**

Education: **Must be a high school graduate from a school accredited by a State Education Agency; or Have a qualifying GED score of 2500 (minimum score of 250 if taken before 2002); or a High School Equivalency score of 600 or higher; or Have completed an Associate degree or higher from a school accredited by a State Education Agency; and**

Show evidence of successful completion of: 1 full year of high school Algebra with a passing grade of “C” or better.

Physical: **Physically and mentally able to safely perform or learn to safely perform essential functions of the job either with or without reasonable accommodations.**

Tradesmen Apprenticeship & Comprehensive Training

Testing: **None**

Other: **Applicants shall submit all required application documentation within thirty (30) days of date of application. Applicants not completing documents within (30) days will be required to reapply.**

Must provide proof and copy of a valid State driver license.

III. CONDUCT OF PROGRAM UNDER WASHINGTON EQUAL EMPLOYMENT OPPORTUNITY PLAN:

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

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

A. Selection Procedures:

- 1. Applications are available and accepted at the Tradesmen Apprenticeship & Comprehensive Training facility year round.
1121 SE 22nd St.
Battle Ground WA 98604**
- 2. All applicants will need to sign into a logbook called- Record of Apprentice. Applicants will be assigned an Apprentice Applicant Number (AAN) that will correspond with all future documentation throughout their training.**
- 3. Interviews will be scheduled for applicants that meet the minimum qualifications based upon available work opportunities, but not more than one time per month.**
- 4. The Committee will determine the number of openings prior to holding interviews.**

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5. Remaining applicants will be placed in a ranked pool and retained for two years. Applicants in the ranked pool shall be contacted to determine their continued eligibility and willingness to work. The pool of remaining eligible applicants will be re-ranked upon completion of each interview cycle.
6. Interviews:
 - a. The interviewers shall have in their possession for each applicant: Application form, relevant documentation of education, and proof of date of birth.
 - b. Each applicant shall be interviewed individually.
 - c. After a brief introduction, the interviewing committee will ask questions to find out as much as possible about their capacity to participate in apprenticeship.
 - d. Questions will be for evaluation purposes - focused on work experience, mechanical/technical abilities, and motivation to complete the program.
 - e. Evaluation of interview will be based on scale of 0-5 with 0 being unacceptable and 5 being excellent on each topic. In the event of a tie, educational transcript GPA will be used to rank those tied.
 - f. All applicants must be asked the same questions.
7. Applicants: Successful applicants will be required to pass a standard DOT drug test at no cost to the applicant.
8. Exceptions: Direct Entry may be given to current Tradesmen Electric employees who meet minimum qualifications and submit a completed application for apprenticeship.
 - B. Equal Employment Opportunity Plan:
 1. Distributing information about the nature of apprenticeship programs, program admission requirements, current apprenticeship opportunities, sources of apprenticeship applications, and the equal opportunity policy of the sponsor.
 2. Participating in workshops conducted by employment service agencies, school districts, and community based organizations to increase apprenticeship program awareness of apprenticeship opportunities.
 3. Target women or other minorities for employment opportunities at women shelters, community centers, or other events to balance a well-rounded employment body.
 - C. Discrimination Complaints:

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

IV. TERM OF APPRENTICESHIP:

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

The term of apprenticeship for inside electrician shall not be less than 8000 hours of reasonable continuous employment.

V. INITIAL PROBATIONARY PERIOD:

An initial probationary period applies to all apprentices, unless the apprentice has transferred from another program. During the initial probationary period an apprentice can be discharged without appeal rights. An initial probationary period is stated in hours or competency steps of employment. The initial probationary period is not reduced by advanced credit or standing. During an initial probationary period, apprentices receive full credit for hours and competency steps toward completion of their apprenticeship. Transferred apprentices are not subject to additional initial probationary periods [WAC 296-05-003].

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

- A. The period following the apprentice's registration into the program. An initial probationary period must not be longer than twenty percent of the term of the entire apprenticeship, or longer than a year from the date the apprenticeship is registered. The WSATC can grant exemptions for longer initial probationary periods if required by law.
- B. The period in which the WSATC or the supervisor of apprenticeship may terminate an apprenticeship agreement at the written request by any affected party. The sponsor or the apprentice may terminate the agreement without a hearing or stated cause. An appeal process is not available to apprentices in their initial probationary period.
- C. **The first one thousand-six hundred (1,600) hours of employment shall constitute the initial probationary period or one year from date of registration, whichever occurs first.**

VI. RATIO OF APPRENTICES TO JOURNEY LEVEL WORKERS

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Supervision is the necessary education, assistance, and control provided by a journey-level employee that is on the same job site at least seventy-five percent of each working day, unless otherwise approved by the WSATC. The sponsor will assure that apprentices are under the supervision of competent and qualified journey-level workers on the job who are responsible for the scope of work being performed, to ensure safety and training in all phases of the work. Inside Wireman apprentices may be supervised by a certified master journey level electrician, journey level electrician, or master specialty electrician working in their specialty, or specialty electrician working in their specialty. In no case shall specialty electricians supervise more than 4000 hours of the 8000 hour term.

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

The employer is allowed a ratio of one (1) apprentice to one (1) journey-level worker per job site.

At no time shall the ratio of apprentices to journey-level workers exceed 1:1, unless the following condition is met;

Apprentices with a minimum of 7,000 hours of OJT will be allowed to work without the direct supervision of a journey-level person provided that they have been issued a six-month, nonrenewable, unsupervised electrical training certificate by the Washington State Labor and Industries Electrical Section. Such apprentices will not be counted for the purposes of a ratio calculation nor be allowed to supervise other apprentices.

VII. APPRENTICE WAGES AND WAGE PROGRESSION:

- A. Apprentices must be paid at least Washington's minimum wage, unless a local ordinance or a collective bargaining agreement require a higher wage. Apprentices must be paid according to a progressively increasing wage scale. The wage scale for apprentices is

Tradesmen Apprenticeship & Comprehensive Training

based on the specified journey-level wage for their occupation. Wage increases are based on hours worked or competencies attained. The sponsor determines wage increases.

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

C. Inside Electrician

Step	Hour Range or competency step	Percentage of journey-level wage rate*
1	0-1000 hours	40%
2	1001-2000 hours	45%
3	2001-3000 hours	50%
4	3001-4000 hours	56%
5	4001-5000 hours	62%
6	5001-6000 hours	69%
7	6001-7000 hours	76%
8	7001-8000 hours	86%

1. Inside Electrician apprentices shall not be paid less than the progressive scale identified within this section regardless the scope of work being performed.

*Sponsors must submit the journey-level wage at least annually or whenever changed to the department as an addendum to these standards. Journey-level wage reports may be submitted on a form provided by the department. Apprentices and others should contact the sponsor or the Department for the most recent Journey-level wage rate.

Tradesmen Apprenticeship & Comprehensive Training

VIII. WORK PROCESSES:

The apprentice shall receive on the job instruction and work experience as is necessary to become a qualified journey-level worker versed in the theory and practice of the occupation covered by these standards. The following is a condensed schedule of work experience, which every apprentice shall follow as closely as conditions will permit. The following work process descriptions pertain to the occupation being defined. In no case shall work hours in commercial and industrial be less than 4000 cumulative hours for the term of apprenticeship.

A. <u>Inside Wireman:</u>	<u>Approximate Hours</u>
1. RESIDENTIAL-wiring of residences, duplexes, and small apartment buildings and necessary pre-fabrication and preparation.	1500
2. COMMERCIAL-wiring of public commercial, school and hospital buildings; the installation and repair of all equipment therein; and necessary pre-fabrication and preparation..	3000
3. INDUSTRIAL-wiring of all industrial buildings and equipment; the maintenance, repair, and alteration of the same; and necessary pre-fabrication and preparation.....	2000
4. SPECIALIZED SYSTEMS-wiring of systems which include; sound, data transmission, telephone, fire alarm, fiber optics, energy management, closed circuit television programmable controllers, and nurse call systems.	1500
TOTAL HOURS:	8000

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IX. RELATED/SUPPLEMENTAL INSTRUCTION:

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

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

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

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

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

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

Supervised field trips (only in excess of the required 144 minimum classroom hours)

Sponsor approved training seminars (must be supervised by competent instructor - specify)

- **Safety trainings.**
- **Subject Matter Expert presentations.**
- **Requests for seminars not already pre-approved must be submitted in writing to the Committee 90 days prior to the seminar.**

Sponsor approved online or distance learning courses (only in excess of the required 144 minimum classroom hours-specify)

State Community/Technical college

Private Technical/Vocational college

Sponsor Provided (lab/classroom)

Other (specify): • **Industry related video.**

- **Industry related material supplier training.**

Tradesmen Apprenticeship & Comprehensive Training

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

- Twelve-month period from date of registration.*
- Defined twelve-month school year: **September** through **June**.
- Two-thousand hours of on the job training.

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

C. Additional Information:

1. The 144 hours identified above shall be 144 hours/year of competent instructor led classroom instruction (“must” include lab or hands-on instruction)
 - This requirement includes a minimum of 720 RSI hours over the term of apprenticeship under the same conditions.
 - On-line would not be excluded as a delivery method but could only be offered for hours over the 144 annual minimum/720 cumulative total.
2. RSI plans shall be updated by the sponsor every five years or as requested by the department to ensure compliance with these standards.
3. Competent Instructor qualifications shall include the following:
 - Meets requirements of WAC 296-05-003, excluding the Journey Level Experience requirement
 - Meets requirements of WAC 296-46B-970, excluding the following:
 - Manufacturer/Vendor representative when not accompanied by Competent Instructor
 - Electrical Administrator with no Journey level trade qualification
4. **RSI annual totals – Year 1 -186 hours, Year 2 -188 hours, Year 3 -184 hours, Year 4 -182 hours.**

X. ADMINISTRATIVE/DISCIPLINARY PROCEDURES:

A. Administrative Procedures:

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

1. Voluntary Suspension: A temporary interruption in progress of an individual's apprenticeship agreement at the request of the apprentice and granted by the sponsor.

Tradesmen Apprenticeship & Comprehensive Training

The program sponsor shall review apprentices in suspended status at least once each year to determine if the suspension is still appropriate.

2. Advanced Standing or Credit: The sponsor may provide for advanced standing or credit for demonstrated competency, acquired experience, training or education in or related to the occupation. All sponsors need to ensure a fair and equitable process is applied to all apprentices seeking advanced standing or credit per WAC 296-05-015 (11).
3. Sponsor Procedures:
 - A. **During the initial probationary period, the Committee shall make a thorough review of the apprentice's ability and development. Once an Apprentice has completed the probationary period, apprentice performance reviews will be done every mid-term of each year for progress alignment. Reviews will be done by instructors, journeyman, and employer supervisor.**
 - B. **Apprentice shall have no less than 85% attendance in RSI for each term year excluding any excused absences as approved by the Training Director and/or Committee.**
 - C. **It is the responsibility of the apprentice to have reliable transportation to attend class and scheduled labs.**
 - D. **Proof of State driver license shall be maintained throughout the duration of the apprenticeship.**
 - E. **Apprentices must report their hours to the Sponsor no later than the 5th of each month for the previously worked month.**
 - F. **Requirements for advancement are:**
 1. **Minimum of 85% attendance for each term.**
 2. **Minimum of 70% average grade for classes and labs.**
 3. **Minimum work experience hours per wage scale reported timely.**
 4. **Minimum 'meets expectations' review from employer and journey level workers.**
 - G. **Apprentices are required to take the State level examination within 30 days of being approved for state examination and report results to the Sponsor. Any apprentice who fails the exam will be required to engage in additional study as determined by Sponsor and retake and pass exam within 120 days of completing their OJT and RSI requirements. If test is not passed – the apprentice will be required to repeat 4th year RSI classes.**

Tradesmen Apprenticeship & Comprehensive Training

H. Tradesmen Apprenticeship & Training- Facility & Student Code of Conduct will be followed by all apprentices.

1. **Safe behavior is an absolute expectation. Unsafe behaviors that include words, actions, intent, or horseplay will not be tolerated.**
2. **Communication, Quality, Reliability, Integrity, and Respect. The training apprentices receive shall be high quality, delivered well, in a timely fashion, and with the highest degree of respect. The same conduct and values will be expected.**
3. **A safe job site is a clean job site. This includes learning areas for apprentices. All class rooms will be maintained and kept clean. All lab areas will be kept clean from hazards that may cause danger.**
4. **Tradesmen Apprenticeship & Training facilities are non-smoking facilities. Physical/verbal abuse, harassment of any type toward Tradesmen Apprenticeship & Training staff, fellow classmates, or instructors will not be tolerated.**

Failure to follow the above requirements listed in these standards will result in a request to appear before the Apprenticeship Committee for possible disciplinary action up to, and including cancellation.

B. Disciplinary Procedures

1. The obligations of the sponsor when taking disciplinary action are as follows:
 - a. The sponsor shall be responsible for enacting reasonable policies and procedures and applying them consistently. The sponsor will inform all apprentices of their rights and responsibilities per these standards.
 - b. The sponsor shall notify the apprentice of intent to take disciplinary action and reasons therefore 20 calendar days prior to taking such action. The reason(s) supporting the sponsor's proposed action(s) must be sent in writing to the apprentice.
 - c. The sponsor must clearly identify the potential outcomes of disciplinary action, which may include but are not limited to discipline, suspension or cancellation of the apprenticeship agreement.
 - d. The decision/action of the sponsor will become effective immediately.

Tradesmen Apprenticeship & Comprehensive Training

2. The sponsor may include in this section requirements and expectations of the apprentices and an explanation of disciplinary actions imposed for noncompliance. The sponsor has the following disciplinary procedures to adopt:
 - a. Disciplinary Probation: A time assessed when the apprentice's progress is not satisfactory. During this time the sponsor may withhold periodic wage advancements, suspend or cancel the apprenticeship agreement, or take further disciplinary action. A disciplinary probation may only be assessed after the initial probation is complete.
 - b. Disciplinary Suspension: A temporary interruption in the progress of an individual's apprenticeship agreement. Conditions will include not being allowed to participate in On-the-Job Training (OJT), go to Related Supplemental Instruction (RSI) classes or take part in any activity related to the Apprenticeship Program until such time as the sponsor takes further action. The program sponsor shall review apprentices in such status at least once each year.
 - c. Cancellation: Refers to the termination of an apprenticeship agreement at the request of the apprentice, supervisor, or sponsor. [WAC 296-05-003].
3. Sponsor Disciplinary Procedures:

Failure to maintain employment with Tradesmen Electric may result in cancellation of the apprenticeship agreement.

C. Apprentice Complaint Procedures:

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

Tradesmen Apprenticeship & Comprehensive Training

5. The program sponsor must reply, in writing, to the request for reconsideration within 30 calendar days from the date the program sponsor receives the request. The program sponsor must send a copy of the written reply to the apprentice within the 30 calendar days.
6. If the apprentice disagrees with the program sponsor's decision, the apprentice may file an appeal with the Apprenticeship Program, (WAC 296-05-105). If the apprentice does not timely file an appeal, the decision of the program sponsor is final after 30 calendar days from the date the program sponsor mails the decision to the apprentice. See section "D" below.

D. Apprentice Complaint Review/Appeals Procedures:

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

XI. SPONSOR – RESPONSIBILITIES AND GOVERNING STRUCTURE

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

Tradesmen Apprenticeship & Comprehensive Training

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

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

B. Program Operations

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

Sponsors shall submit required forms/reports through assigned state apprenticeship consultant.

Or;

Sponsors shall submit required forms/reports through the Apprentice Registration and Tracking System (ARTS), accessed through Secure Access Washington (SAW).

Paper forms as well as ARTS external access forms are available from the sponsor's assigned apprenticeship consultant or online at:

<http://www.lni.wa.gov/TradesLicensing/Apprenticeship/FormPub/default.asp>.

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

Tradesmen Apprenticeship & Comprehensive Training

4th quarter: October through December, due by January 10

h. On-the-Job Work Hours Reports (bi-annual)

1st half: January through June, by July 30

2nd half: July through December, by January 31

2. The program Sponsor will adopt, as necessary, local program rules or policies to administer the apprenticeship program in compliance with these Standards. Requests for revision to these standards of apprenticeship must be submitted 45 calendar days prior to a quarterly WSATC meeting. The Department of Labor and Industries, Apprenticeship Section's manager may administratively approve requests for revisions in the following areas of the Standards:
 - a. Program name
 - b. Sponsor's introductory statement
 - c. Section III: Conduct of Program Under Washington Equal Employment Opportunity Plan
 - d. Section VII: Apprentice Wages and Wage Progression
 - e. Section IX: Related/Supplemental Instruction
 - f. Section XI: Sponsor – Responsibilities and Governing Structure
 - g. Section XII: Subcommittees
 - h. Section XIII: Training Director/Coordinator
3. The Sponsor will utilize competent instructors as defined in WAC 296-05-003 for RSI. Furthermore, the Sponsor will ensure each instructor has training in teaching techniques and adult learning styles, which may occur before or within one year after the apprenticeship instructor has started to provide instruction.

C. Management of Apprentices:

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

Tradesmen Apprenticeship & Comprehensive Training

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

D. Training Agent Management:

1. The sponsor shall offer training opportunities for apprentices by ensuring reasonable and equal working and training conditions are applied uniformly to all apprentices. The sponsor shall provide training at an equivalent cost to that paid by other employers and apprentices participating in the program. The sponsor shall not require an employer to sign a collective bargaining agreement as a condition of participation.

Tradesmen Apprenticeship & Comprehensive Training

2. The sponsor must determine whether an employer can adequately furnish proper on the job training to an apprentice in accordance with these standards. The sponsor must also require any employer requesting approved training status to complete an approved training agent agreement and to comply with all federal and state apprenticeship laws, and these standards.
3. The sponsor will submit training agent agreements to the Department with a copy of the agreement and/or the list of approved training agents within thirty calendar days from the effective date. Additionally, the sponsor must submit rescinded training agent agreements to the Department within thirty calendar days of said action.

E. Committee governance (if applicable): (see WAC 296-05-009)

1. Apprenticeship committees shall elect a chairperson and a secretary who shall be from opposite interest groups, i.e., chairperson-employers; secretary-employees, or vice versa. If the committee does not indicate its definition of quorum, the interpretation will be "50% plus 1" of the approved committee members. The sponsor must also provide the following information:

- a. Quorum: **A quorum shall consist of four (4) members' minimum with equal representation from employer and employee representatives.**
- b. Program type administered by the committee: **Individual Non-Joint**
- c. The employer representatives shall be:

Steve Niemi, Chair
1121 SE 22nd St.
Battle Ground WA 98604

Christian Warner
1121 SE 22nd St.
Battle Ground WA 98604

Tim Linge
1121 SE 22nd St.
Battle Ground WA 98604

- d. The employee representatives shall be:

Andrew Carlson
1121 SE 22nd St.
Battle Ground WA 98604

Dana Raisanen, Secretary
1121 SE 22nd St.
Battle Ground WA 98604

Andy Gillette
1121 SE 22nd St.
Battle Ground WA 98604

Tradesmen Apprenticeship & Comprehensive Training

F. Plant programs

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

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

None

XII. SUBCOMMITTEE:

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

None

XIII. TRAINING DIRECTOR/COORDINATOR:

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

**Michael Townley, Training Director
Tradesmen Apprenticeship &
Comprehensive Training
1121 SE 22nd St.
Battle Ground WA 98604**

Teri Gardner 11-27-19

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



Journey Level Wage Rate
From which apprentices' wages rates are computed

TO: Washington State Apprenticeship & Training Council

From **Tradesmen Apprenticeship & Comprehensive Training**

(NAME OF STANDARDS)

Occupations	County(s)	Journey Level Wage Rate	Effective Date:
Inside Electrician (01)	Clark, Cowlitz, Skamania, Lewis.	\$ 36.00	07/2019



Teri Gardner 11-27-19

Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	Tradesmen Apprenticeship & Comprehensive Training
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Committee Representative Name: <i>Andy Gillette</i>

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
<i>Electrician</i>	<i>Tradesmen Electric</i>	<i>07/12</i>	<i>Current</i>
<i>Framer</i>	<i>West Water Homes</i>	<i>09/10</i>	<i>07/12</i>

Name and Location of Training and/or School	Month/Year Attended	From	To	Program of Study	Type of Certificate or Degree Awarded, if any
<i>JATC</i>	<i>09/13</i>	<i>06/17</i>		<i>(01) electrical</i>	<i>Diploma</i>
<i>Clark College</i>	<i>09/11</i>	<i>06/13</i>		<i>Business degree</i>	<i>N/A</i>
<i>Battle Ground</i>	<i>09/09</i>	<i>06/11</i>		<i>High School</i>	<i>Diploma</i>

<i>Oregon Electrical journeyman card</i>
<i>WA Electrical journeyman card</i>

Sponsors may attach additional pages if necessary.

Teri Gardner 11-27-19



Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	Tradesmen Apprenticeship & Comprehensive Training
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Committee Representative Name: Christian Warner
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WORK EXPERIENCE			
POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
Lead Estimator	Tradesmen Electric	5/18	current
Foreman	Tradesmen Electric	8/17	5/18
Electrician	Prairie Electric	04/04	8/17

EDUCATION HISTORY				
Name and Location of Training and/or School	Month/Year Attended		Program of Study	Type of Certificate or Degree Awarded, if any
	From	To		
Mt View High School	99	02	General	Diploma
Accubid Advanced	2/19	3/19	Training	Completion
Accubid Beginner	4/18	5/18	Training	Completion
Estimating 101	7/19	8/19	Training	Completion

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD	
WA General Journeyman EL 01 Warnecm892na	
OR General Journeyman J 28302J	

Sponsors may attach additional pages if necessary.



Teri Gardner 11-27-19

Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	Tradesmen Apprenticeship & Comprehensive Training
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Committee Representative Name: Steven Niemi

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
Manager	Tradesmen Electric Inc	6/2005	7/2019

Name and Location of Training and/or School	Month/Year Attended		Program of Study	Type of Certificate or Degree Awarded, if any
	From	To		
JATC apprenticeship WA / OR	9/1997	6/2002	Inside Electrician (01)	diploma/completion

LICENSES
WA Electrical Supervisor License
WA Electrical General Journeyman License
OR Electrical General Journeyman License

Sponsors may attach additional pages if necessary.



Teri Gardner 11-27-19

Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	Tradesmen Apprenticeship & Comprehensive Training
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Committee Representative Name: Tim Linge
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POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
Project Manager	Tradesmen Electric	7-13-19	Present
Electrician	Cascade Electric	1-13-11	7-20-18
Electrician	Prairie Electric	4-11-88	1-10-11
Teacher	JATC Area 1	2-1-17	Present

Name and Location of Training and/or School	Month/Year Attended	Program of Study	Type of Certificate or Degree Awarded, if any
	From To		

Washington State (EL-01) Journey License #LINGETG940M8
Oregon General Journeyman License #17148J

Sponsors may attach additional pages if necessary.

TIM LINGE

Teri Gardner 11-27-19

25717 NE 220 TH AVE, 185, BATTLEGROUND, WA - Washington 98604 | H: 360-687-3896 |

timlinge@tradesmenelectric.com

SUMMARY

Focused on building connections with students to strengthen engagement and help each reach full potential through skill-building. Knowledgeable about planning activities, field trips and projects to diversify instruction and immerse students in Electrical subject material. Bringing 2 years of experience in education.

SKILLS

- Behavioral/cognitive skills development
- Emergent curriculum
- Differentiated instruction
- Public speaking
- Standardized testing techniques
- Teaching, tutoring and counseling
- Curriculum development

EXPERIENCE

07/2018 to Current

Project Manager

Tradesmen Electric — Battleground, WA

- Updated project plans based on changing objectives, specifications and staff availability
- Provided updates and managed inquiries for delivery of quality products and services
- Developed new analytics tool to allow senior management to understand the impact of each project
- Met project benchmarks while reducing costs through the introduction of enhanced implementation strategies

04/2011 to 07/2018

Electrical Foreman

Cascade Electrical — Battle Ground, WA

- Performed with efficiency and quality while installing and repairing electrical projects
- Provided empowering leadership to ensure positive production outcomes and consistent team morale
- Promoted safety and work site awareness by identifying and removing potential hazards and effectively training team members in safety protocols
- Worked closely with construction teams diverse work sites to complete projects such as Grocery Stores and Tenant Improvements
- Communicated with clients to convey timelines, scope of work and potential challenges throughout project timeline

04/1988 to 03/2011

Electrical Foreman

Prairie Electric — Vancouver, WA

- Communicated with clients to convey timelines, scope of work and potential challenges throughout project timeline

- Manage telecommunications and electrical contract work for high-profile clients
- Managed and mentored highly effective [Number]-member team of electricians
- Functioned as crew leader, overseeing work of lower-level licensed electricians and trade helpers
- Followed electrical code manuals to install and repair electrical systems
- Took ownership of electrical crew schedule, developing short- and long-term look-ahead schedules to align with execution plans
- Installed, tested and modified circuit breakers, controls, fuses, lights and motors

09/2017 to Current

Teacher

JATC — Portland, OR

- Established positive relationships with students, parents, fellow teachers and school administrators
- Created lesson plans in accordance with state curriculum and school-wide curriculum standards
- Set and communicated ground rules for classroom based on respect and personal responsibility
- Mentored and counseled students with social adjustment and academic problems
- Developed and implemented interesting and interactive learning media to increase student understanding of course materials

EDUCATION AND TRAINING

High School Diploma

Mountain View High School — Vancouver



Teri Gardner 11-27-19
**Apprenticeship Committee Representative
 Qualification Information
 Experience & Education History**

NAME OF PROGRAM/SPONSOR:	Tradesmen Apprenticeship & Comprehensive Training
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Committee Representative Name:	Andrew Carlson
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WORK EXPERIENCE			
POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
Foreman	Tradesmen electric	2/19	Current
Apprentice	Tradesmen electric	6/18	2/19
Apprentice	Bell mountain Electrical Technologys	12/16	6/18
Apprentice	Tradesmen electric	6/14	12/16

EDUCATION HISTORY				
Name and Location of Training and/or School	Month/Year Attended		Program of Study	Type of Certificate or Degree Awarded, if any
	From	To		
Area one inside electrical JATC	9/15	6/19	Electrical	JATC diploma
Summit View High School	9/12	6/14	General Education	High school diploma
Battle ground high school	9/10	6/12	General Education	

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD
Oregon general journeyman electrician card.
Washington EL01 journey level card

Sponsors may attach additional pages if necessary.



Teri Gardner 11-27-19

Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	Tradesmen Apprenticeship & Comprehensive Training
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Committee Representative Name:	Dana Raisanen
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POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
Foreman	Tradesmen electric	January 2012	July 2019
Apprentice	Tradesmen electric	September 2008	January 2012
Trainee	Tradesmen electric	March 2007	September 2008
Framer	Raicon inc.	January 2006	March 2007

Name and Location of Training and/or School	Month/Year Attended	Program of Study	Type of Certificate or Degree Awarded, if any
	From To		
Area one inside electrical JATC	September 2008 December 2012	Electrical	JATC diploma
Summit view high school	September 2005 June 2007		High school diploma
Battle ground high school	September 2003 June 2005		


Oregon general journeyman electrician card.
Washington EL01 journey level card

Sponsors may attach additional pages if necessary.

Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Sponsor: Tradesmen Apprenticeship & Comprehensive Training			
Skilled Occupational Objective:		Inside Electrician (01)	
Term/OJT Hours:	8000	Total RSI Hours:	740
		Year 1=186+Year 2=188+ Year 3=184+Year 4=182	
Training Provider: Tradesmen Apprenticeship & Comprehensive Training			

- By the signature placed below, the **program sponsor** agrees to provide the prescribed RSI for each registered apprentice and assures that:
 1. The RSI content and delivery method is and remains reasonably consistent with the latest occupational practices, improvements, and technical advances.
 2. The RSI is coordinated with the on-the-job work experience.
 3. The RSI is provided in safe and healthful work practices in compliance with WISHA and applicable federal and state regulations.

 Signature of Program Sponsor	Steve Niemi Print Name
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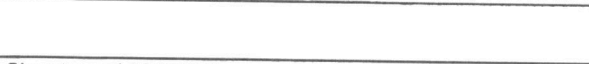
- By the signature placed below, the **training provider** assures that:
 1. The RSI will be conducted by instructors who meet the qualifications of "competent instructor" as described in WAC 296-05-003.
 - a. Has demonstrated a satisfactory employment performance in his/her occupation for a minimum of three years beyond the customary learning period for that occupation; and
 - b. Meets the State Board for Community and Technical Colleges requirements for a professional-technical instructor (see WAC 131-16-080 through -094), or be a subject matter expert, which is an individual, such as a journey worker, who is recognized within the industry as having expertise in a specific occupation; and
 - c. Has training in teaching techniques and adult learning styles, which may occur before or within one year after the apprenticeship instructor has started to provide the related technical instruction.
 2. If using alternative forms of instruction, such as correspondence, electronic media, or other self-study, such instruction is clearly defined.

 Signature of Training Provider	Tim Linge Print Name
---	--------------------------------

Project Manager	Tradesmen Apprenticeship & Comprehensive Training
Title	Organization

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

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

 Signature of SBCTC Program Administrator	Print Name	Date
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SBCTC recommends approval
 SBCTC recommends return to sponsor

F110-519-000 RSI - Apprenticeship Related Supplemental Instruction (RSI) Plan Review Glossary of Term

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

Program Sponsor:	Tradesmen Apprenticeship & Comprehensive Training
Skilled Occupational Objective:	Inside Electrician (01)

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

Describe minimum hours of study per year in terms of (check one):

- 12-month period from date of registration
 Defined 12-month school year
 2,000 hours of on-the-job training

Element/course:	Basic construction safety	YEAR 1	Planned Hours:	10
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: <i>Gives the apprentices general safety concerns regarding falls, ladders, and scaffolds. Tool safety and personal protection equipment (PPE) will be introduced.</i>				

Element/course:	DC fundamentals/ applied math	YEAR 1	Planned Hours:	40
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: <i>Atomic theory, laws of charge, and magnetism will be introduced and demonstrated to show the basics in the electrical field- and source.</i>				

Element/course:	AC fundamentals/ applied math	YEAR 1	Planned Hours:	30
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: <i>Provide the basics on designs of motors, generators, transformers, and protection devices. This element leads to box fill and pipe fill.</i>				

Element/course:	Multimeter Principles	YEAR 1	Planned Hours:	12
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: <i>Will provide a systematic approach to testing and how to use a meter safely. Ohm's law power formula and power wheel will be a basis of study.</i>				

Element/course:	Introduction to NEC	YEAR 1	Planned Hours:	40
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: <i>Shows how to use the code book, and also the intent. The general layout and definitions will be discussed.</i>				

Program **Tradesmen Apprenticeship & Comprehensive Training**

Sponsor:

Skilled Occupational Objective: **Inside Electrician (01)**

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

Describe minimum hours of study per year in terms of (check one):

- 12-month period from date of registration
 Defined 12-month school year
 2,000 hours of on-the-job training

Element/course: Basic Electrical Theory	YEAR 1	Planned Hours: 30
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study		
Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Introduces series, parallel, and series parallel circuits and circuit analysis. Source and uses will be reviewed.</i>		

Element/course: Basic electrical construction drawings	YEAR 1	Planned Hours: 10
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study		
Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Describes the different types and uses of construction drawings. The format and content of Electrical drawings and how they show intent. Specifications and standards will be addressed as they apply.</i>		

Element/course: Panel makeup/termination labs	YEAR 1	Planned Hours: 14
Mode of Instruction (please check all that apply): <input type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study		
Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Will provide a systematic approach to testing and how to use a meter safely. Ohm's law power formula and power wheel will be a basis of study.</i>		

Element/course: Raceway calculations	YEAR 2	Planned Hours: 10
Mode of Instruction (please check all that apply): <input type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study		
Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Learn the basics of conduit area and fill percentage calculations</i>		

Element/course: Material handling	YEAR 2	Planned Hours: 6
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study		
Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>How and why organization is valuable with material on the job. Recognize hazards and follow proper lifting habits.</i>		

Program Sponsor: **Tradesmen Apprenticeship & Comprehensive Training**

Skilled Occupational Objective: **Inside Electrician (01)**

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

Describe minimum hours of study per year in terms of (check one):

- 12-month period from date of registration
- Defined 12-month school year
- 2,000 hours of on-the-job training

Element/course: NEC -definitions to article 110	YEAR 2	Planned Hours: 20
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Provides a more in depth explanation of NEC requirements and the safety concerns around electrical equipment.</i>		

Element/course: Electrical safety- OSHA 10	YEAR 2	Planned Hours: 10
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Refresher course on safety , related directly to electrical and also to construction sites.</i>		

Element/course: NEC calculations and methods / 200-240	YEAR 2	Planned Hours: 30
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Discuss identifying neutral conductors, cover multiwire branch circuits, and explore GFCIs and AFCIs.</i>		

Element/course: NEC grounding and bonding / 250	YEAR 2	Planned Hours: 30
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>This covers grounding electrodes required and sizing. Bonding metal components, and bonding jumpers in services. Sizing of equipment grounding conductors for feeders and branch circuits.</i>		

Element/course: NEC Wiring Methods / 300	YEAR 2	Planned Hours: 40
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Course and lab introduces EMT, rigid , MC ,SER, NMB, and all sorts of flexible conduit and requirements for all types. Also other applications and selection process for different methods.</i>		

Program Sponsor:	Tradesmen Apprenticeship & Comprehensive Training
Skilled Occupational Objective:	Inside Electrician (01)

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

Describe minimum hours of study per year in terms of (check one):

- 12-month period from date of registration
 Defined 12-month school year
 2,000 hours of on-the-job training

Element/course:	Conduit bending lab	<u>YEAR 2</u>	Planned Hours:	8
Mode of Instruction (please check all that apply): <input type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: <i>Shows the art of bending EMT/ Rigid of different trade sizes, and how to use resources in completing raceways.</i>				

Element/course:	Table top Large Bender (2.5-4" EMT)	<u>YEAR 2</u>	Planned Hours:	8
Mode of Instruction (please check all that apply): <input type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: <i>Introduce and practice bending large conduit using the equipment and the tools charts.</i>				

Element/course:	Rigid pipe threading machines	<u>YEAR 2</u>	Planned Hours:	8
Mode of Instruction (please check all that apply): <input type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: <i>Shows the different types of wiring methods and how to work with threaded pipe and fittings.</i>				

Element/course:	Voice,Data, Video	<u>YEAR 2</u>	Planned Hours:	8
Mode of Instruction (please check all that apply): <input type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: <i>Procedures used when building a cable system-selecting,installing, and maintaining for voice data, and video systems.</i>				

Element/course:	Fire Alarm Systems	<u>YEAR 2</u>	Planned Hours:	10
Mode of Instruction (please check all that apply): <input type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: <i>Covers fire alarm programming to digital alarm communicator systems. Differences between initiating devices and notification devices and installation, maintenance keeping.</i>				

Program Sponsor:	Tradesmen Apprenticeship & Comprehensive Training
Skilled Occupational Objective:	Inside Electrician (01)

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

Describe minimum hours of study per year in terms of (check one):

- 12-month period from date of registration
- Defined 12-month school year
- 2,000 hours of on-the-job training

Element/course:	System Grounding	<u>YEAR 3</u>	Planned Hours:	12
Mode of Instruction (please check all that apply):				
<input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study				
Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: System grounding- covers general requirements per NEC				

Element/course:	Bonding jumpers	<u>YEAR 3</u>	Planned Hours:	12
Mode of Instruction (please check all that apply):				
<input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study				
Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: System bonding jumpers and main bonding jumpers defined and discussed with Mike Holt.				

Element/course:	Grounding electrodes	<u>YEAR 3</u>	Planned Hours:	12
Mode of Instruction (please check all that apply):				
<input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study				
Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: Grounding electrodes defined and shown different applications with Mike Holt material.				

Element/course:	Grounding electrodes sizing	<u>YEAR 3</u>	Planned Hours:	12
Mode of Instruction (please check all that apply):				
<input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study				
Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: Grounding electrodes sized per specific applications and calculations with Mike Holt material.				

Element/course:	Grounding conductors	<u>YEAR 3</u>	Planned Hours:	12
Mode of Instruction (please check all that apply):				
<input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study				
Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>				
Description of element/course: Table 250.122 shows the minimum size equipment grounding conductors for grounding raceways and equipment with discussions.				

Program Sponsor:	Tradesmen Apprenticeship & Comprehensive Training
Skilled Occupational Objective:	Inside Electrician (01)

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

Describe minimum hours of study per year in terms of (check one):

- 12-month period from date of registration
- Defined 12-month school year
- 2,000 hours of on-the-job training

Element/course: General lighting	<u>YEAR 3</u>	Planned Hours: 12
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: Lighting - ballasts, drivers, and transformers with resources to show wiring,function and troubleshooting.		

Element/course: General uses (NEC 400)	<u>YEAR 3</u>	Planned Hours: 10
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Describes the use of cords and cables with ampacity, and strain relief use.</i>		

Element/course: Switches and caps	<u>YEAR 3</u>	Planned Hours: 12
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Represents all types of switches from snap style to knife switches and the NEC requirements that affect many areas.</i>		

Element/course: Gear/ switchboards	<u>YEAR 3</u>	Planned Hours: 12
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Pertains to the installment, identification and locations of panelboards and gear.</i>		

Element/course: Motors and thermal protection	<u>YEAR 3</u>	Planned Hours: 30
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Outlines motors and controls as well as overload protection. Sizing and demand factors are discussed.</i>		

Program Sponsor:	Tradesmen Apprenticeship & Comprehensive Training
Skilled Occupational Objective:	Inside Electrician (01)

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Describe minimum hours of study per year in terms of (check one):

- 12-month period from date of registration
- Defined 12-month school year
- 2,000 hours of on-the-job training

Element/course: Classified locations	<u>YEAR 3</u>	Planned Hours: 12
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Describes articles 500 through 504 and how they classify each area for the safety of personnel and equipment. These areas will be documented.</i>		

Element/course: Health care facilities	<u>YEAR 3</u>	Planned Hours: 12
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Defines spaces that provide services to human beings. Redundent grounds and critical care requirements per NEC.</i>		

Element/course: Mobile home/ manufactured homes	<u>YEAR 3</u>	Planned Hours: 12
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Course covers wiring methods pertaining to mobile homes and manufactured homes along with the demand factors for parks.</i>		

Element/course: Safety refresher	<u>YEAR 3</u>	Planned Hours: 12
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Lays open construction safety and reminds the importance off Personal Protection Equipment (PPE)</i>		

Element/course: Advanced NEC Calculations	<u>YEAR 4</u>	Planned Hours: 10
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>		
Description of element/course: <i>Determine primary and secondary conductor sizing and show proficiency in calculating for three phase systems.</i>		

Program Sponsor:	Tradesmen Apprenticeship & Comprehensive Training
Skilled Occupational Objective:	Inside Electrician (01)

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

Describe minimum hours of study per year in terms of (check one):

- 12-month period from date of registration
- Defined 12-month school year
- 2,000 hours of on-the-job training

Element/course:	OSHA construction Safety	<u>YEAR 4</u>	Planned Hours: 12
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>			
Description of element/course: <i>Understand Electrical hazards and safe electrical practices.</i>			

Element/course:	Electrical Estimating	<u>YEAR 4</u>	Planned Hours: 40
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>			
Description of element/course: <i>Help describe the differences between estimating and bidding. Discuss the qualities of a good estimator. Breakdown risk factors and manage labor costs and ratios.</i>			

Element/course:	Leadership skills	<u>YEAR 4</u>	Planned Hours: 30
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>			
Description of element/course: <i>Go over and grasp concepts on personal branding and basic leadership skills. discuss what it takes to be a team player and develop others.</i>			

Element/course:	Examination Preparation	<u>YEAR 4</u>	Planned Hours: 30
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>			
Description of element/course: <i>Reviews the code book NEC layout and introduces other approved examination material needed to successfully pass the journeyman test.</i>			

Element/course:	Electrician's Math Review	<u>YEAR 4</u>	Planned Hours: 30
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by: <i>Tradesmen Apprenticeship & Comprehensive Training</i>			
Description of element/course: <i>This gives additional practice with math and other formulas pertaining to the electrical field and circuits.</i>			

Program Sponso	Tradesmen Apprenticeship & Comprehensive Training
Skilled Occupational Objective:	Inside Electrician (01)

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

Describe minimum hours of study per year in terms of (check one):

- 12-month period from date of registration
- Defined 12-month school year
- 2,000 hours of on-the-job training

Element/course: Electrician's dwelling calculations <u>YEAR 4</u>	Planned Hours: 30
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by:	
Description of element/course: <i>Applying real life examples using the standard method versus the optional and how to present the information.</i>	

Element/course:	Planned Hours:
Mode of Instruction (please check all that apply): <input type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by:	
Description of element/course:	

Element/course:	Planned Hours:
Mode of Instruction (please check all that apply): <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by:	
Description of element/course:	

Element/course:	Planned Hours:
Mode of Instruction (please check all that apply): <input type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by:	
Description of element/course:	

Element/course:	Planned Hours:
Mode of Instruction (please check all that apply): <input type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> On-line <input type="checkbox"/> Self-study Provided by:	
Description of element/course:	