

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



REQUEST FOR APPROVAL OF PROPOSED STANDARDS

ADH rcv'd 05.28.2021
L&I apprenticeship
coordinator

TO: Washington State Apprenticeship & Training Council

FROM TRIPLE B SPRINKLER FITTER APPRENTICESHIP
NAME OF PROGRAM STANDARDS

Teri Gardner 5-28-2021

Check appropriate box:

Committee Plant OJT

OCCUPATION(S):	HOURS:	SOC #:
SPINKLER FITTER	10000	47-2152.00

Authorized Signatures:

Chair: <i>Caleb Burton</i>	Approved by: Washington State Apprenticeship & Training Council
Secretary: <i>Richard Ehleris</i>	Secretary of Council
Date: <i>5-20-2021</i>	Date:

Teri Gardner 6-3-2021
Teri Gardner 5-28-2021
ADH rcv'd 06.03.2021
ADH rcv'd 05.28.2021



APPRENTICESHIP PROGRAM STANDARDS
adopted by

TRIPLE B SPRINKLER FITTER APPRENTICESHIP

(sponsor name)

Occupational Objective(s):
SPRINKLER FITTER

SOC#
47-2152.00

Term [WAC 296-05-015]
10,000 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

TRIPLE B SPRINKLER FITTER APPRENTICESHIP

INTRODUCTION

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

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

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

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

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

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

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

Sponsor Introductory Statement (Required):

The following standards are for the development of apprentices in Yakima, WA in the Sprinkler Fitting Industry and have been prepared by the representatives of ABC Fire

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Control Inc. for Triple B Sprinkler Fitter Apprenticeship. When approved by and registered with the Washington State Apprenticeship and Training Council, these standards will govern the training of apprentices in the industry and qualify people for installing, maintaining, repairing, and inspecting life safety equipment. These standards will provide a plan of approved training that will equip apprentices with knowledge of what is expected as a journey level sprinkler fitter, assure employers, fire services, law enforcement and private citizens that proficient workers may be obtained. The public will be provided with the highest possible grade of products and services in conformity with approved practices of safety and skilled craftsmanship.

I. GEOGRAPHIC AREA COVERED:

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

The area covered by these standards shall be all counties in Washington State. Oregon counties will include Umatilla, Morrow, Union, Wallowa and Baker.

While the State of Washington has no jurisdiction, responsibility, or authority in the state of Oregon, the Committee will apply the same standards and guidelines to apprentices registered in this program while working in the state of Oregon.

II. MINIMUM QUALIFICATIONS:

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

Age: **Applicants for apprenticeship must be at least eighteen (18) years of age at the time of application.**

Education: **Applicants for apprenticeship must be high school graduates or have the equivalence.**

Applicants who graduated high school must provide a copy of their diploma and official sealed transcripts at the time of application.

Applicants who have attained their high school equivalency must provide proof of completion at the time of application.

Physical: **Must be physically capable of performing the work of this trade with or without reasonable accommodations.**

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Testing: **None**

Other: **Applicants must be residents of Yakima County, WA.**

Applicants must possess a Washington State Driver license and provide a copy of it at the time of application. Applicants must pay for and provide a current driver's abstract at the time of application.

Applicants must be insurable. The vehicle insurance provider used by ABC Fire Control Inc. will determine if an applicant is insurable.

Applicants must provide a copy of their military records if applicable.

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

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

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

A. Selection Procedures:

Exempt per WAC 296-05-405(1) (a), fewer than five (5) apprentices.

B. Equal Employment Opportunity Plan:

Exempt per WAC 296-05-405(1) (a), fewer than five (5) apprentices.

C. Discrimination Complaints:

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

IV. TERM OF APPRENTICESHIP:

The term of apprenticeship for an individual apprentice may be measured through the completion of the industry standard for on-the-job learning (at least two thousand hours) (time-based approach), the attainment of competency (competency-based approach), or a

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blend of the time-based and competency-based approaches (hybrid approach) [WAC 296-05-015].

The term of apprenticeship shall be 10,000 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 an initial probationary period, an apprentice can be discharged without appeal rights. An initial probationary period is stated in hours or competency steps of employment. The initial probationary period is not reduced by advanced credit or 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 initial probationary period for all apprentices shall be 2000 hours or one (1) year, whichever comes first.**

VI. RATIO OF APPRENTICES TO JOURNEY LEVEL WORKERS

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

- A. The journey-level employee must be of the same apprenticeable occupation as the apprentice they are supervising unless otherwise allowed by the Revised Code of

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Washington (RCW) or the Washington Administrative Code (WAC) and approved by the WSATC.

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

The ratio shall be one (1) apprentice for each one (1) journey-level worker per jobsite.

VII. APPRENTICE WAGES AND WAGE PROGRESSION:

- A. Apprentices must be paid at least Washington’s minimum wage, unless a local ordinance or a collective bargaining agreement require a higher wage. Apprentices must be paid according to a progressively increasing wage scale. The wage scale for apprentices is based on the specified journey-level wage for their occupation. Wage increases are based on hours worked or competencies attained. The sponsor determines wage increases. Sponsors must submit the journey-level wage at least annually or whenever changed to the department as an addendum to these standards. Journey-level wage reports may be submitted on a form provided by the department. Apprentices and others should contact the sponsor or the Department for the most recent Journey-level wage rate.
- B. Sponsors can grant advanced standing, and grant a wage increase, when apprentices demonstrate abilities and mastery of their occupation. When advanced standing is granted, the sponsor notifies the employer/training agent of the wage increase the apprenticeship program standard requires.
- C. Wage Progression Schedules OR **Sprinkler Fitter**

Step	Hour Range or competency step	Percentage of journey-level wage rate*
1	0000-1000 hours	69%
2	1001-2000 hours	72%
3	2001-3000 hours	75%
4	3001-4000 hours	77%
5	4001-5000 hours	80%

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6	5001-6000 hours	82%
7	6001-7000 hours	85%
8	7001-8000 hours	88%
9	8001-9000 hours	90%
10	9001-10000 hours	95%

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.

A. Sprinkler Fitter Approximate Hours/Competency Level

- 1. Overhead piping installations4000**
 - a. Wet pipe system (light, ordinary and extra hazard)**
 - i. Exposed piping**
 - ii. Concealed piping**
 - iii. Hydrostatic test**
 - b. Dry pipe system (light, ordinary and extra hazard)**
 - i. Exposed piping**
 - ii. Concealed piping**
 - iii. Air or Hydrostatic test**
 - c. Special piping installations**
 - i. Anti-freeze systems**
 - d. Standpipe and hose equipment**
- 2. Control devices, training alarm installations and drains3000**
 - a. Alarm valves or water flow devices**
 - i. Water meter alarm gongs**
 - ii. Electric alarms, circuit openers or closer**
 - b. Dry pipe valves or accelerators**
 - i. Air supplies (manual or automatic)**
 - ii. Supervisory equipment**
 - iii. Water motor alarm – gongs**
 - iv. Electric alarm circuit openers or closer**
 - c. Pre-action and deluge valves**
 - d. Heat responsive devices, tubing, and conduit**
- 3. Underground piping1500**
 - a. Cast iron bell and spigot pipe and fitting installations**
 - i. Post indicator valves**

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- ii. Hydrants
- iii. Valve pit connections, hydrant houses and equipment
- iv. Hydrostatic test and flushing
- b. Special types of underground piping
 - i. Universal or mechanical joint pipe

- 4. Water supplies.....800
 - a. City connections
 - i. Wet connections under pressure
 - ii. Dry cut-ins
 - b. Tank connections
 - i. Gravity tanks (discharge, fill, heating, and overflowing)
 - ii. Pressure tanks (discharge, fill and air)
 - c. Fire pumps-manual or automatic
 - i. Suction and discharge
 - ii. By-pass
 - iii. Hose connections and relief
 - d. Fire department Siamese connections

- 5. Care and maintenance of sprinkler system500
 - a. Repair work on overhead and underground piping
 - i. Piping and valves
 - ii. Devices and alarms
 - iii. Flushing
 - b. Insurance inspection and reports
 - c. Owner’s instruction on care and maintenance

- 6. Miscellaneous.....200
 - a. Scaffolds and ladders
 - i. Construction and use
 - ii. Safe operating practices
 - b. Care and use of tools
 - c. Receiving, distributing, and shipping of materials

Total Hours/# of Competency Levels: 10,000

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.

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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

Sponsor approved training seminars (specify)

Sponsor approved online or distance learning courses **National Fire Prevention Association curriculum NFPA**

State Community/Technical college

Private Technical/Vocational college

Sponsor Provided (lab/classroom)

Other (specify):

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

Twelve-month period from date of registration.*

Defined twelve-month school year: (insert month) through (insert month).

Two-thousand hours of on the job training.

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

C. Additional Information:

None

X. ADMINISTRATIVE/DISCIPLINARY PROCEDURES:

A. Administrative Procedures:

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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. 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. Responsibilities of Apprentices

- i. **Counties listed in Section I Geographic Area Covered of these standards includes all of the counties apprentices may be required to work in during their apprenticeships.**
- ii. **All apprentices must complete and pass a drug test prior to being dispatched. This is a condition of employment and will be at no cost to the apprentice. It will be paid for by the Sponsor.**
- iii. **It is the responsibility of the apprentices to keep the Sponsor informed of their current e-mail, mailing address, and phone number.**
- iv. **Maintain and make available records of all work experience and training received on the job and in related instruction. Turn in OJT and RSI hour reports to the District Office monthly by the 5th. Documents to track hours are provided by the Sponsor and may be picked up during normal business hours at the District Office.**
- v. **Respect the property of the employer always and under all circumstances.**
- vi. **Maintain employment with ABC Fire Control Inc.**

b. Travel Policies for Apprentices

If an Apprentice is required to travel more than fifty (50) miles to work, participate in RSI, or attend a disciplinary hearing they will be accommodated as follows:

- i. **Lodging will be arranged by and paid for by the Sponsor at a local hotel. There will be one apprentice per room.**
- ii. **Per Diem for meals will be provided.**
- iii. **Mileage will be reimbursed at the current federal allowed rates.**

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c. Advancement of Apprentices

i. **The apprenticeship committee shall examine the progress of the apprentice on the job and in related instruction on a quarterly basis. A performance evaluation form shall be used. Apprentice must achieve a positive evaluation to advance.**

- 1. Apprentices must have accrued a minimum of 1,000 hours since their last advancement.**
- 2. Apprentices must have completed all required related classroom training and have passed all required tests with a score of at least 70%.**
- 3. Apprentices must have received a minimum of 70% on performance evaluations.**

d. **Apprentices must maintain a current driver license with no infractions to ensure being insurable.**

e. **Apprentices must be on time to every job site and all RSI training.**

B. Disciplinary Procedures

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

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- 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:
- a. **A delay in progressing from one step/wage to the next may occur for the following:**
 - i. **Not turning in the hour reports timely.**
 - ii. **Unsatisfactory work performance.**
 - iii. **Not respecting the property of the employer.**
 - iv. **Tardiness to job site or RSI classes.**
 - b. **Repeat offenders may face additional discipline up to and including cancellation of the apprenticeship agreements.**
 - c. **Failure to maintain employment with ABC Fire Control Inc. will result in cancellation of the apprenticeship agreement.**

D. Apprentice Complaint Procedures:

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

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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:

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

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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
 - 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

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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
 - i) Other (i.e., name changes, address)
 - j) Training Agent Cancellation
3. The sponsor commits to rotate apprentices in the various processes of the skilled occupation to ensure the apprentice is trained to be a competent journey-level worker.

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

D. Training Agent Management:

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

TRIPLE B SPRINKLER FITTER APPRENTICESHIP

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: **Two (2) employer members and two (2) employee members is a quorum for the committee.**
- b. Program type administered by the committee: **INDIVIDUAL NON-JOINT**
- c. The employer representatives shall be:

**Caleb Burton, Chair
P.O. Box 10353
Yakima, WA 98909**

**Santiago Benitez
P.O. Box 10353
Yakima, WA 98909**

- d. The employee representatives shall be:

**Richard Ehlis, Secretary
P.O. Box 10353
Yakima, WA 98909**

**Mike Longee
P.O. Box 10353
Yakima, WA 98909**

F. Plant programs

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

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

N/A

XII. SUBCOMMITTEE:

TRIPLE B SPRINKLER FITTER APPRENTICESHIP

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.

None



P.O. BOX 10353
YAKIMA, WA 98909

To whom it may concern:

Journey level wages for the Triple B Apprenticeship Program are the current wages for our industry in this area. Wages will be evaluated and updated annually or as needed.

Teri Gardner 5-28-2021

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 TRIPLE B SPRINKLER FITTER APPRENTICESHIP
(NAME OF STANDARDS)

ADH rcv'd 05.28.2021

Occupations	County(s)	Journey Level Wage Rate	Effective Date:
SPRINKLER FITTER	All counties in Washington state. Oregon counties will include Umatilla, Morrow, Union, Wallowa and Baker.	20.00	5/20/21



To whom it may concern:

The employee committee representatives were chosen by current ABC Fire Control employees voting them in to represent them as a part of the Triple B Apprenticeship Program committee. The ABC employees will become apprentices once the program is approved.

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



Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR: TRIPLE B SPRINKLER FITTER APPRENTICESHIP *Feri Gardner 5-28-2021*

Committee Representative Name:
MIKE LONGEE

WORK EXPERIENCE

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
SERVICE TECH	ABC FIRE CONTROL INC	1/1/10	PRESENT
FIRE EXTINGUISHER SERVICE	ABC FIRE CONTROL INC	2007	PRESENT
PREENGINEERED SYSTEM	ABC FIRE CONTROL INC	2009	PRESENT
BACKFLOW INSPECTION AND SERVICE	ABC FIRE CONTROL INC	2006	PRESENT
SPRINKLER SERVICE	ABC FIRE CONTROL INC	2004	PRESENT
SPRINKLER INSTALL	ABC FIRE CONTROL INC	2002	PRESENT

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		
WAPATO HIGH SCHOOL	1984	1987	General	DIPLOMA

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

BUCKEYE

ANSUL

WASHINGTON STATE PATROL CERTIFICATE

CITY OF SPOKANE CERTIFICATE



Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	TRIPLE B SPRINKLER FITTER APPRENTICESHIP
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Committee Representative Name: SANTIAGO BENITEZ

WORK EXPERIENCE			
POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
SYSTEM MANAGER	ABC FIRE CONTROL INC	2019	PRESENT
BACKFLOW SERVICE AND INSPECTION	ABC FIRE CONTROL INC	2016	PRESENT
INSTALL SYSTEM AND SPRINKLER	ABC FIRE CONTROL INC	2014	PRESENT
SPRINKLER TECH	ABC FIRE CONTROL INC	2008	PRESENT
SERVICE TECH	ABC FIRE CONTROL INC	2005	PRESENT
FIRE EX RECH	ABC FIRE CONTROL INC	2004	PRESENT

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		
EISENHOWER HIGH SCHOOL	1998	2002	GENERAL	DIPLOMA
BACK FLOW	2018	2019	BACKFLOW	BFT LICENSE
WAS STATE	2006	2008	SPRINKLER TRAINING	IT SPRINKLER
L & L SPECIALITY	2019	2019	SPECIALITY LICENSE	BAT CARD AND REPAIR

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD
BUCKEYE / KITCHEN MISTER
ANSUL / PROHARA
PYROCHEM
KITCHEN KNIGHT



Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	TRIPLE B SPRINKLER FITTER APPRENTICESHIP
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Committee Representative Name: RICHARD EHLIS

WORK EXPERIENCE			
POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
SYSTEM SERVICE	ABC FIRE CONTROL INC	2002	PRESENT
TECH SERVICE	ABC FIRE CONTROL INC	99	2002
HOOD CLEANER	ABC FIRE CONTROL INC	95	99

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		
SELAH HIGH SCHOOL	1976	1980	GENERAL	GED
MILITARY	1980	1992	SPECIALIZED TRAINING	
NATIONAL GUARD	1992	2002		

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD
BUCKEYE
ANSUL
MORACH
KITCHEN KNIGHT
RANGE GUARD



Apprenticeship Committee Representative Qualification Information Experience & Education History

NAME OF PROGRAM/SPONSOR:	TRIPLE B SPRINKLER FITTER APPRENTICESHIP
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Committee Representative Name: CALEB BURTON
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WORK EXPERIENCE

POSITION (Most recent first)	EMPLOYER / ORGANIZATION	FROM: (Month & Year)	TO: (Month & Year)
SPRINKLER MANAGER	ABC FIRE CONTROL INC	11/19/19	PRESENT
SPRINKLER SERVICE	ABC FIRE CONTROL INC	2015	PRESENT
SYSTEM REPAIR AND SERVICE	ABC FIRE CONTROL INC	2014	PRESENT
FIRE EX	ABC FIRE CONTROL INC	2012	PRESENT
SPRINKLER INSTALL	ABC FIRE CONTROL INC	2009	PRESENT

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		
SELAH HIGH SCHOOL	2003	2007	GENERAL	DIPLOMA
YVC	2010	2014	CIVIL ENGINEER	AA DEGREE

OTHER TECHNICAL CERTIFICATIONS or LICENSES HELD

BUCKEYE
ANSUL
NICET
STATE OF WASHINGTON PATROL

Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Sponsor TRIPLE B SPRINKLER FITTER APPRENTICESHIP		<i>Teri Gardner 5-28-2021</i>
Skilled Occupational Objective SPRINKLER FITTER		
Term/OJT Hours 10000	Total RSI Hours 720	
Training Provider TRIPLE B SPRINKLER FITTER APPRENTICESHIP		

By the signature placed below, the **program sponsor** agrees to provide the prescribed RSI for each registered apprenticeship 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.

Caleb Burton

Printed Name of Program Sponsor

Signature of Program Sponsor

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.

CALEB BURTON

Print Name Training Provider

Vice President

Title of Training Provider

Signature of Training Provider

TRIPLE B SPRINKLER FITTER
APPRENTICESHIP

Organization of Training Provider

If there are additional training providers, please provide information and signatures on the next page.

Additional Resources: [Apprenticeship Related Supplemental Instruction \(RSI\) Plan Review Glossary of Term \(F100-519-000\)](#) and [Apprenticeship Related Supplemental Instruction \(RSI\) Plan Review Criteria \(F100-521-000\)](#).

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

Click or tap here to enter text.

Print Name of SBCTC Program Administrator

Signature of SBCTC Program Administrator

Date

SBCTC recommends approval

SBCTC recommends return to sponsor

Additional Training Providers (if necessary)

CALEB BURTON

Print Name Training Provider

Click or tap here to enter text.

Title of Training Provider

Click or tap here to enter text.

Print Name Training Provider

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Title of Training Provider

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Title of Training Provider

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Organization of Training Provider

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Organization of Training Provider

Signature of Training Provider

Click or tap here to enter text.

Organization of Training Provider

Program Sponsor: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	Skilled Occupational Objective: SPRINKLER FITTER
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Note: The description of each element must be in sufficient detail to provide adequate information for review by the SBCTC and Review Committee. To add more elements, click on the plus sign that appears below the "Description of element/course" field.

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

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

Element/Course: BASIC SAFETY YEAR 1	Planned Hours: 16.5
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	
Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon successful completion of this module, the trainee will be able to describe the importance of safety, the causes of workplace incident, and the process of hazard recognition and control; describe the safe work requirements for elevated work, including fall protection guideline; identify and explain how to avoid struck-by hazards; identify common energy-related hazards and explain how to avoid them; identify and describe the proper use of personal protective equipment (PPE); identify and describe other specific job-site safety hazards, such as exposure hazards, environmental extremes, basic firefighting procedures, and confined spaces.	

Element/Course: INTRODUCTION TO CONSTRUCTION MATH YEAR 1	Planned Hours: 14
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	
Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon successful completion of this module, the trainee will be able to identify whole numbers and demonstrate how to work with them mathematically; explain how to work with fractions; describe the decimal system and explain how to work with decimals; identify various tools used to measure length and show how they are used; identify and convert units of length, weight, volume, and temperature between the Imperial and metric systems of measurement; and identify basic angles and geometric shapes and explain how to calculate their area and volume.	

Element/Course: INTRODUCTION TO HAND TOOLS YEAR 1	Planned Hours: 14
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	
Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon successful completion of this module, the trainee will be able to identify and explain how to use various types of hand tools (hammers, chisels, punches, screwdrivers, adjust and non-adjustable wrenches, socket and torque wrenches, pliers and wire cutters); identify and describe how to use various types of measurement and layout tools (rules, levels); identify and explain how to use various types of cutting and shaping tools (handsaws, files, utility knives); and identify and explain how to use other common hand tools (shovels, picks, chain falls, come-alongs, clamps).	

Element/Course: INTRODUCTION OF POWER TOOLS YEAR 1	Planned Hours: 14
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	
Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course:	

Upon successful completion of this module, the trainee will be able to identify and explain how to use various types of power drills and impact wrenches (power drills, bits, hammer drill, pneumatic drill); identify and explain how to use various types of power saws (circular, saber, reciprocation, portable band, miter, cutoff); identify and explain how to use various grinders and grinder attachments; and identify and explain how to use miscellaneous power tools such as pneumatic and powder-actuated fastening tools, pavement breakers, and hydraulic jacks.

Element/Course: INTRODUCTION TO CONSTRUCTION DRAWINGS YEAR 1	Planned Hours: 14
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon successful completion of this module, the trainee will be able to identify and describe various types of construction drawing (civil, architectural, structural, mechanical, plumbing/piping, electrical, fire protection); describe the purpose of the five basic components of construction drawings; explain the significance of various drawing elements, such as line construction, abbreviations, symbols, and grid lines; identify and describe the use of dimensions, various drawing scales, and how to use engineer's and architect's scales.	

Element/Course: BASIC RIGGING YEAR 1	Planned Hours: 11.5
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon successful completion of this module, the trainee will be able to identify and describe various types of slings and how to inspect them; identify and describe how to inspect common rigging hardware; identify and describe various types of joists; and identify and describe rigging hitches and the related Emergency Stop hand signal.	

Element/Course: BASIC COMMUNICATIONS SKILLS YEAR 1	Planned Hours: 11.5
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon successful completion of this module, the trainee will be able to describe the communication, listening, and speaking processes and their relationship to job performance (including nonverbal communication, active listening, courteous and professional telephone calls, and tips for dealing with conflict); and describe good reading and writing skills and their relationship to job performance (including emails and texting).	

Element/Course: BASIC EMPLOYABILITY SKILLS YEAR 1	Planned Hours: 11.5
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to describe the opportunities in the construction businesses and how to enter the construction workforce; explain the importance of critical thinking and how to solve problems (potential barriers, problems related to planning and scheduling); and explain the importance of good social skills and identify the way they are applied in the construction trade (resolving conflict with co-workers and supervisors, give and receive constructive criticism, social issues within the workplace, working in a team environment, being and effective leader.)	

Element/Course: INTRODUCTION TO MATERIAL HANDLING YEAR 1	Planned Hours: 9
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon successful completion of this module, the trainee will be able to identify the basic concepts of material handling and common safety precautions(manual lifting, how to tie knots commonly used in material handling); identify various types of material handling equipment and describe how they are used (motorized and non-motorized handling equipment).	

Element/Course: ORIENTATION TO THE TRADE YEAR 1	Planned Hours: 10
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to identify career opportunities in the Sprinkler Fitter industry, define the typical work environment of a sprinkler fitter, identify basic tools and materials of the trade, identify trade-specific safety hazards, identify plans specific to the sprinkler fitting industry, and define how to best organize job-site materials.	

Element/Course: INTRODUCTION TO COMPONENTS & SYSTEMS YEAR 1	Planned Hours: 11.5
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to define the term Listed an explain how the term relates to sprinkler systems, explain the purpose of a Listing agency, describe the characteristics of common sprinkler heads, state the important characteristics of aboveground pipe, including wall thickness and joining methods, define C-factor and list the advantages of a higher C-factor, describe the types of pip hangars and sway bracing, and identify the characteristics of control valves, check valves, water flow alarms, and fire department connections.	

Element/Course: STEEL PIPE YEAR 1	Planned Hours: 6.5
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to follow basic safety precautions for the preparation and installation of steel pipe, identify types of steel pipe, calculate take-outs, set up equipment, measure and cut steel pipe, assemble threaded grooved, and plain-end pipe and check for correctness of end preparation.	

Element/Course: STEEL PIPE YEAR 2	Planned Hours: 20
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to follow basic safety precautions for the preparation and installation of steel pipe, identify types of steel pipe, calculate take-outs, set up equipment, measure and cut steel pipe, assemble threaded grooved, and plain-end pipe and check for correctness of end preparation.	

Element/Course: CPVC PIPE AND FITTINGS YEAR 2	Planned Hours: 14
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to follow basic safety precautions for the preparation and installation of CPVC pipe, identify approved CPVC pipe, calculate take-outs, set up equipment, join, and cure CPVC pipe, and check for correctness of end preparation.	

Element/Course: COPPER TUBE SYSTEMS YEAR 2	Planned Hours: 14
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to follow basic safety precautions for the preparation and installation of copper pipe, identify approved types of copper pipes, calculate take-outs, set up equipment, cut, chamfer and clean copper pipe, and check for correctness of end preparation.	

Element/Course: UNDERGROUND PIPE YEAR 2	Planned Hours: 22
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of the module, the trainee will be able to identify types and properties of soil, explain excavation safety, explain sloping requirements for different types of soil, explain digging trenches, describe excavation support systems, describe types of bedding material, identify and describe hydrants, yard valves, hydrant houses, and associated appurtenances, explain testing, inspection and chlorination of underground pipe, and fill out an Underground Test Certificate.	

Element/Course: HANGER, SUPPORTS, RESTRAINTS, AND GUIDES YEAR 2	Planned Hours: 19
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to identify and describe strength requirements of pipe hangers, supports, restraints, and guides, identify and describe spacing requirements of pipe hangers, support restraints, and guides, identify and describe types of pipe hangers, supports, restraints and guides, install pipe hangers, supports, restraints, guides and anchors, identify and explain types of earthquake bracing, install earthquake bracing, describe and explain sleeving and firestopping, cut a hanger to a specified length.	

Element/Course: GENERAL PURPOSE VALVES YEAR 2	Planned Hours: 10
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to identify the basic types of valves, demonstrate the ability to service different types of valves, define the general purpose of backflow preventer, install outside stem and yoke(OS&Y) valves, install a tamper switch, install butterfly grooved valves, and disassemble, service and reassemble a check valve,	

Element/Course: GENERAL TRADE MATH YEAR 2	Planned Hours: 24
Mode of Instruction (check all that apply)	

<input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to use basic math principles to solve problems, convert fundamental measurement quantities from English system to the metric system, and from metric to English, recognize the effects of temperature on sprinkler systems. Calculate 45-degree offsets and tank volume, center sprinkler heads using the target, square offset, and geometric methods, and solve sprinkler system problems relating to change in elevation, sprinkler, discharge and hanger sizing.	

Element/Course: SHOP DRAWINGS YEAR 2	Planned Hours: 21
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to identify common structural symbols on a show drawing, identify cut lengths and size of pipe in an installation drawing, identify the materials to perform an installation from drawings, identify standard sprinkler system symbols, interpret a legend and calculate the number of sprinklers to be used in an installation, identify the orifice size of a sprinkler from drawings, identify the temperature rating of a sprinkler from a drawing, calculate the square footage and the number of sprinklers required for a given area and lay out sprinkler hanger locations.	

Element/Course: SHOP DRAWINGS YEAR 3	Planned Hours: 13.5
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to identify common structural symbols on a show drawing, identify cut lengths and size of pipe in an installation drawing, identify the materials to perform an installation from drawings, identify standard sprinkler system symbols, interpret a legend and calculate the number of sprinklers to be used in an installation, identify the orifice size of a sprinkler from drawings, identify the temperature rating of a sprinkler from a drawing, calculate the square footage and the number of sprinklers required for a given area and lay out sprinkler hanger locations.	

Element/Course: STANDARD SPRAY FIRE SPRINKLERS YEAR 3	Planned Hours: 24
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to, using a shop drawing you are currently installing on a project, identify unobstructed and obstructed construction on the drawing, and explain why these construction types are obstructed or unobstructed, calculate maximum coverage area of standard sprinklers for various occupancies, calculate spacing using the small room rule, determine sprinkler temperatures by examining different sprinklers, calculate the maximum spacing of sidewall sprinklers using the protection area rule, and referencing a Sprinkler Identification Number (SIN), identify the manufacturer and sprinkler type.	

Element/Course: WET FIRE SPRINKLER SYSTEMS YEAR 3	Planned Hours: 29
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	

<p>Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP</p> <p>Description of element/course:</p> <p>Upon completion of this module, the trainee will be able to describe riser check, alarm check valve, and trim, trim an alarm check valve and replace the faceplate gasket, identify and describe flow switches, tamper switches, and pressure switches, install a flow switch and set the retard device, identify and explain fire department connections and hose stations, explain inspector's test connections and auxiliary drains, explain hydrostatic testing test pumps, perform a hydrostatic test using a pump, describe antifreeze systems, calculate the specific gravity of a antifreeze solution, and complete a contractor's material & test certificate, an identify a faulty pressure gauge and replace it.</p>

Element/Course: DRY-PIPE SYSTEMS YEAR 3	Planned Hours: 29
<p>Mode of Instruction (check all that apply)</p> <p><input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study</p> <p>Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP</p> <p>Description of element/course:</p> <p>Upon completion of this module, the trainee will be able to identify and explain dry-pipe systems and why and where dry pipe systems used, identify dry-pipe valves and trim, install pressure gauges on an alarm valve, identify and explain air supplies, identify and explain accelerators and exhausters, perform an installation of an accelerator, explain why an exhauster is quick-opening device and describe possible locations where an exhauster could be installed in a dry pipe system, explain pitching sprinkler piping and auxiliary drains in dry-pipe systems, calculate pitch for dry-pipe systems, identify and explain fire department connections with respect to dry pipe systems, install, set and adjust an air maintenance device, remove and install a faceplate gasket, and rest troubleshoot a dry-pipe system.</p>	

Element/Course: DELUGE/PROACTION SYSTEMS YEAR 3	Planned Hours: 44
<p>Mode of Instruction (check all that apply)</p> <p><input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study</p> <p>Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP</p> <p>Description of element/course:</p> <p>Upon completion of this module, the trainee will be able to identify and explain differences between deluge and preaction system, identify the critical components, of a deluge system and preaction system, explain where the preaction systems an deluge systems, are generally installed, trip and reset a deluge valve, identify the three types of discharge nozzles used with a deluge system, identify an explain various methods of activating electrical release and electrical supervision, demonstrate the procedures to place a Firecycle O system in service, identify and explain non-, single, and double-interlock systems into service and describe activation, an perform a hydrostatic test.</p>	

Element/Course: STANDPIPES YEAR 3	Planned Hours: 4.5
<p>Mode of Instruction (check all that apply)</p> <p><input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study</p> <p>Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP</p> <p>Description of element/course:</p> <p>Upon completion of this module, the trainee will be able to identify the different types and classifications of standpipes, explain the requirements for standpipes for buildings under construction, explain the basic requirements for sizing standpipes, hydraulically and be schedule, describe a hose rack assembly and how it works describe roof manifolds, identify and explain fire department connections, identify types of hose valves and adapters, demonstrate flow test procedures used to validate minimum pressure and flow capability, identify, test, and adjust a pressure-reducing valve (PRV), and demonstrate LINK-SEALO installation procedures,</p>	

Element/Course: STANDPIPES YEAR 4	Planned Hours: 24.5
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	
Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to identify the different types and classifications of standpipes, explain the requirements for standpipes for buildings under construction, explain the basic requirements for sizing standpipes, hydraulically and be schedule, describe a hose rack assembly and how it works describe roof manifolds, identify and explain fire department connections, identify types of hose valves and adapters, demonstrate flow test procedures used to validate minimum pressure and flow capability, identify, test, and adjust a pressure-reducing valve (PRV), and demonstrate LINK-SEALO installation procedures,	

Element/Course: WATER SUPPLIES YEAR 4	Planned Hours: 20
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	
Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to recognize federal, state, and jurisdictional requirements for supply and disposal of fire sprinkler system water, identify different water supplies for automatic sprinkler systems, explain the three qualities that are critical to the water supply for fire sprinkler systems, identify types of water storage and explain their usage, describe different water main configurations, preform flow test procedures, plot residual and static pressure on a graph, read a flow test results sheet and determine the number of outlets flowed, hydrant outlet size and static and residual pressure, fill out a flow test summary sheet, identify and describe backflow preventers and methods of installation, and identify and describe meters used in fire sprinkler systems.	

Element/Course: FIRE PUMPS YEAR 4	Planned Hours: 44
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	
Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to explain the basic components and types that make up a fire pump system, identify the VFPA standard that covers the installation of fire pumps, explain the minimum residual pressure in pounds per square inch(psi) that can be used when pumping from a municipal water supply, convert pressure ratings from psi to feet of head and vice versa, explain how to set and align a pump, discuss the different types of and requirements for fire pump controllers, discuss monitoring requirements for fire for the pumps, describe acceptance testing for fire pumps, perform a mechanical check of a fire pump system, measure the flow of a system, and identify potential causes for a malfunctioning fire pump.	

Element/Course: APPLICATION-SPECIFIC SPRINKLER AND NOZZLES YEAR 4	Planned Hours: 31.5
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	
Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to identify, describe, and explain application-specific sprinklers, explain area of coverage, positioning, and obstruction requirements, select correct types of sprinklers based on occupancy and obstruction requirements, select proper escutcheon of recess sprinklers, identify and explain nozzles describe different types of nozzles, size and install dry sprinklers, and size and install an attic sprinkler.	

Element/Course: SYSTEM LAYOUT YEAR 4	Planned Hours: 24
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to explain system design, pipe sizing, and hydraulic calculations, identify and describe the four different system configurations, explain the differences between pipe schedule design and hydraulic design identify and describe extra hazard, ordinary hazard, light hazard, and residential occupancies, identify and explain flow characteristics explain pressure loss considerations, hydraulically calculate branch lines, perform steps to hydraulically calculate a branch line, calculate main piping hydraulics, and explain how pipe schedule relates to hazard classifications.	

Element/Course: SYSTEM LAYOUT YEAR 5	Planned Hours: 25
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to explain system design, pipe sizing, and hydraulic calculations, identify and describe the four different system configurations, explain the differences between pipe schedule design and hydraulic design identify and describe extra hazard, ordinary hazard, light hazard, and residential occupancies, identify and explain flow characteristics explain pressure loss considerations, hydraulically calculate branch lines, perform steps to hydraulically calculate a branch line, calculate main piping hydraulics, and explain how pipe schedule relates to hazard classifications.	

Element/Course: INSPECTION, TESTING AND MAINTENANCE YEAR 5	Planned Hours: 23.5
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to describe the reason for unsatisfactory sprinkler performance, explain initial system testing and inspections for aboveground, underground and overhead pipe, describe the flushing process for underground piping/ mains, describe the importance of periodic inspections of sprinkler systems, explain the report of inspection and how it must relate to the chapters included in NFPA 25, explain the difference between warranty repair and owner repair, explain the general preparations for system repair, describe the specific repair considerations for deluge and preaction systems, describe the general preparation procedures for inspection, maintenance, and repair and complete inspection and testing of water-bases and wet standpipe systems and complete the required documentation.	

Element/Course: SPECIAL EXTINGUISHING SYSTEMS YEAR 5	Planned Hours: 46.5
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to describe the three methods of heat transfer, explain the basic principles exposure protection, identify what piping and fitting materials can be used and where they must be located in an exposure system, explain where water spray systems are typically used, explain the general concepts of using foam as opposed to water as an extinguishing agent, explain how to measure density using a refractometer, identify the five basic automatic fire detection methods that can be used for electric release, describe the dangers when	

working with a carbon dioxide system, and describe the different classes of fire extinguishers and what the rating designations mean,

Element/Course: INTRODUCTORY SKILLS FOR THE FOREMAN YEAR 5	Planned Hours: 24
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	
Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to explain the foreman's responsibilities to the project coordination staff or project owner, explain job safety responsibilities, describe job cleanliness and material organization, explain responsibilities for project close-out, describe project layout and coordination, identify and describe the scope of project and the scope letter, describe the job specifications and project drawings, record change on a shop drawing for as-builts, complete daily, weekly time, and progress reports, and identify and explain materials documentation.	

Element/Course: PROCEDURES AND DOCUMENTATION YEAR 5	Planned Hours: 25
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Self-Study	
Provided by: TRIPLE B SPRINKLER FITTER APPRENTICESHIP	
Description of element/course: Upon completion of this module, the trainee will be able to recognize the consequences of improper system, installation, identify the five C's of project documentation, recognize unsafe acts and conditions on a worksite, identify the hazards associated with specific tasks, discuss the procedures for responding to an accident, describe the procedures for emergency response to water damage, and explain how to handle a water damage claim.	