AFSA's easy-to-use Apprenticeship Training Program keeps you up-to-date on employee activities and progress.
Apprenticeship Training: Your Key to the Future

The competitiveness of your firm depends on your workforce: whether you have a skilled group who can do the job correctly and efficiently the first time or a workforce that doesn’t know the proper installation techniques, costing you more money in the long run. To get the edge on the competition, you need to have well-trained employees who can work quickly and correctly.

It takes training to get that leading edge. By enrolling your employees in the American Fire Sprinkler Association’s (AFSA) federally approved apprenticeship series for sprinkler fitters, you will reap the benefits of a qualified, professional crew and design staff. Well-trained employees will work more efficiently, increasing your company’s productivity and, in turn, its profits.

Using AFSA’s approved program as the basis for your Apprenticeship Program, you can register your company’s program with the U.S. Department of Labor Employment and Training Administration (DOLETA) or State Apprenticeship Council (SAC), which will enable you to be more competitive on federal (and some state) projects. Keep in mind that this is a growing market for the fire sprinkler contractor that helps diversify your business opportunities.

Your company can benefit from using the AFSA training program even without registering it with a government agency. You can use this unique AFSA program solely as in-house training to upgrade employee skills. However, if you choose not to register your program, you will not receive wage concessions on government contracts.

The AFSA program develops skills through formalized training that is cost-effective, skill-specific, goal-oriented, and can be designed to meet individual company training needs.

This booklet is a guide to help you set up and administer an effective training program. AFSA members with successful programs have contributed proven methods and experience to this booklet to help you get your training program started.

In the back of the guide, you will find sample forms – an Apprentice Data Sheet and Testing Log, Unit Test Remarks, and an On-The-Job Learning Log – for your use. These forms may be duplicated for use in each apprentice’s file.
Series G, Level I - 15 Modules
Upon completion of Level I the trainee will be awarded 16.0 CEUs (160 Credit Hours).

Module 00101-09 Basic Safety (12.5 Hours)
Complies with OSHA-10 training requirements. Explains the safety obligations of workers, supervisors, and managers to ensure a safe workplace. Discusses the causes and results of accidents and the impact of accident costs. Reviews the role of company policies and OSHA regulations. Introduces common job-site hazards and identifies proper protections. Defines safe work procedures, proper use of personal protective equipment, and working with hazardous chemicals. Identifies other potential construction hazards, including hazardous material exposures, welding and cutting hazards and confined spaces.

Lesson 1 (1.0.0 through 10.2.0)
Lesson 2 (Sections 10.3.0 through Summary)

Module 00102-09 Introduction to Construction Math (10 Hours)
Reviews basic mathematical functions such as adding, subtracting, dividing, and multiplying whole numbers, fractions, and decimals, and explains their applications to the construction trades. Explains how to use and read various length measurement tools, including standard and metric rulers and tape measures, and the architect's and engineer's scales. Explains decimal-fraction conversions and the metric system, using practical examples. Also reviews basic geometry as applied to common shapes and forms.

Lesson 3 (Sections 1.0.0 through 4.8.0)
Lesson 4 (Sections 5.0.0 through Summary)

Module 00103-09 Introduction to Hand Tools (10 Hours)
Introduces trainees to hand tools that are widely used in the construction industry, such as hammers, saws, levels, pullers, and clamps. Explains the specific applications of each tool and shows how to use them properly. Also discusses important safety and maintenance issues related to hand tools.

Lesson 5 (All sections)

Module 00104-09 Introduction to Power Tools (10 Hours)
Provides detailed descriptions of commonly used power tools, such as drills, saws, grinders, and sanders. Reviews applications, proper use, safety, and maintenance. Many illustrations show power tools used in on-the-job settings.

Lesson 6 (All sections)

Module 00105-09 Introduction to Construction Drawings (10 Hours)
Familiarizes trainees with basic terms for construction drawings. Familiarizes trainees with basic terms for construction drawings, components, and symbols. Explains the different types of drawings (civil, architectural, structural, mechanical, plumbing/piping, electrical, and fire protection) and instructs trainees on how to interpret and use drawings dimensions. Four oversized drawings are included.

Lesson 7 (All sections)

Module 00106-09 Basic Rigging (15 Hours)
Explains how ropes, chains, hoists, loaders, and cranes are used to move material and equipment from one location to another on a job site. Describes inspection techniques and load-handling safety practices. Also reviews American National Standards Institute (ANSI) hand signals.

Lesson 8 (All sections)

Module 00107-09 Basic Communication Skills (7.5 Hours)
Provides trainees with techniques for communicating effectively with co-workers and supervisors. Includes practical examples that emphasize the importance of verbal and written information and instructions on the job. Also discusses effective telephone and email communication skills.

Module 00108-09 Basic Employability Skills (7.5 Hours)
Identifies the roles of individuals and companies in the construction industry. Introduces trainees to critical thinking and problem-solving skills and computer systems and their industry applications. Also reviews effective relationship skills, effective self-presentation, and key workplace issues such as sexual harassment, stress, and substance abuse.

Lesson 9 (All sections)

Module 00109-09 Introduction to Materials Handling (5 Hours)
Recognizes hazards associated with materials handling and explains proper materials handling techniques and procedures. Also introduces materials handling equipment, and identifies appropriate equipment for common job-site tasks.

Lesson 10 (All sections)

Module 18101-13 - Orientation to the Trade (5 hours)
Upon completion of this module, the trainee will be able to identify career opportunities in the Sprinkler Fitting 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.

Lesson 11 (Sections 1.0.0 through 5.10.0)
Lesson 12 (Sections 6.0.0 through Summary)

Module 18102-13 - Introduction to Components & Systems (7.5 hours)
Upon completion of this module, the trainee will be able to define the term Listed and 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 pipe hangers and sway bracing, and identify the characteristics of control valves, check valves, water flow alarms, and fire department connections.

Lesson 13 (Sections 1.0.0 through 3.5.0)
Lesson 14 (Sections 4.0.0 through Summary)
Training Made Easy — The AFSA Way

Module 18103-13 - Steel Pipe (22.5 hours)
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.

Lesson 15 (Sections 1.0.0 through 4.2.0)  
Lesson 16 (Sections 5.0.0 through 6.4.0)  
Lesson 17 (Sections 7.0.0 through 8.4.5)  
Lesson 18 (Sections 8.4.6 through Summary)

Module 18104-13 - CPVC Pipe and Fittings (10 hours)
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.

Lesson 19 (Sections 1.0.0 through 3.3.0)  
Lesson 20 (Sections 4.0.0 through Summary)

Module 18105-13 - Copper Tube Systems (10 hours)
Upon completion of this module, the trainee will be able to follow basic safety precautions for the preparation and installation of plastic pipe, identify approved types of copper pipe, calculate take-outs, set up equipment, cut, chamfer, and clean copper pipe, and check for correctness of end preparation.

Lesson 21 (Sections 1.0.0 through 5.6.0)  
Lesson 22 (Sections 6.0.0 through Summary)

Module 18106-13 - Underground Pipe (17.5 hours)
Upon completion of this 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 types of underground pipe, describe thrust blocks and restraints, identify and describe hydrants, yard valves, hydrant houses, and associated appurtenances, explain testing, inspection, and chlorinating of underground pipe, and fill out an Underground Test Certificate.

Lesson 23 (Sections 1.0.0 through 6.1.4)  
Lesson 24 (Sections 6.2.0 through 8.15.0)  
Lesson 25 (Sections 9.0.0 through Summary)

Series G, Level II - 7 Modules

Upon completion of Level II the trainee will be awarded 15.25 CEUs (152.5 Credit Hours).

Module 18201-13 - Hangers, Supports, Restraints, and Guides (15 hours)
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, supports, 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., and cut a hanger to a specified length.

Lesson 1 (Sections 1.0.0 through 2.5.4)  
Lesson 2 (Sections 3.0.0 through 4.4.0)  
Lesson 3 (Sections 5.0.0 through Summary)

Module 18202-13 - General Purpose Valves (15 hours)
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 a 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.

Lesson 4 (Sections 1.0.0 through 3.1.2)  
Lesson 5 (Sections 3.1.3 through 4.4.0)  
Lesson 6 (Sections 5.0.0 through Summary)

Module 18203-13 - General Trade Math (20 hours)
Upon completion of this module, the trainee will be able to use basic math principles to solve problems, convert fundamental measurement quantities from the 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 changes in elevation, sprinkler, discharge, and hanger sizing.

Lesson 7 (Sections 1.0.0 through 2.3.3)  
Lesson 8 (Sections 2.3.4 through 3.2.0)  
Lesson 9 (Sections 3.3.0 through Summary)

Module 18204-13 - Shop Drawings (32.5 hours)
Upon completion of this module, the trainee will be able to identify common structural symbols on a shop drawing, identify cut lengths and sizes of pipe on 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.

Lesson 10 (Sections 1.0.0 through 1.3.6)  
Lesson 11 (Sections 1.4.0 through 3.2.1)  
Lesson 12 (Sections 3.2.2 through Summary)

Module 18205-13 - Standard Spray Fire Sprinklers (20 hours)
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 maximum coverage area of standard sprinklers for various occupancies, 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 changes in elevation, sprinkler, discharge, and hanger sizing.

Lesson 13 (Sections 1.0.0 through 2.1.0)  
Lesson 14 (Sections 2.2.0 through 3.2.5)  
Lesson 15 (Sections 4.0.0 through 4.5.0)  
Lesson 16 (Sections 4.6.0 through Summary)
Module 18206-13 - Wet Fire Sprinkler Systems (25 hours)
Upon completion of this module, the trainee will be able to describe riser check, alarm check valves, 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 and test pumps, perform a hydrostatic test using a pump, describe antifreeze systems, calculate the specific gravity of an antifreeze solution, and complete a contractor’s material & test certificate, and identify a faulty pressure gauge and replace it.

Lesson 17 (Sections 1.0.0 through 3.1.5)
Lesson 18 (Sections 3.2.0 through 4.7.0)
Lesson 19 (Sections 5.0.0 through 6.7.0)
Lesson 20 (Sections 7.0.0 through Summary)

Module 18207-13 - Dry Pipe Systems (25 hours)
Upon completion of this module, the trainee will be able to identify and explain dry-pipe systems and why and where dry pipe systems are 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 a 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 reset and troubleshoot a dry pipe system.

Lesson 21 (Sections 1.0.0 through 3.1.4)
Lesson 22 (Sections 3.2.0 through 4.4.0)
Lesson 23 (Sections 4.5.0 through 6.2.0)
Lesson 24 (Sections 7.0.0 through Summary)

Series G, Level III - 5 Modules
Upon completion of Level III the trainee will be awarded 14.75 CEUs (147.5 Credit Hours).

Module 18301-13 - Deluge/Preaction Systems (40 Hours)
Upon completion of this module, the trainee will be able to identify and explain differences between deluge and preaction systems, identify the critical components of a deluge system and preaction system, explain where preaction systems and deluge systems are generally installed, trip and reset a deluge valve, identify the three types of discharge nozzles used with a deluge system, identify and explain various methods of activating electrical release and electrical supervision, demonstrate the procedures to place a Firecycle®’s system in service, identify and explain non-, single-, and double-interlocked preaction systems, explain the main precautions that must be observed when placing non-, single-, and double-interlock systems into service and describe activation, and perform a hydrostatic test.

Lesson 1 (Sections 1.0.0 through 2.3.1)
Lesson 2 (Sections 2.3.2 through 2.4.4)
Lesson 3 (Sections 2.4.5 through 3.1.0)
Lesson 4 (Sections 3.2.0 through 3.3.4)

Lesson 5 (Sections 4.0.0 through 4.2.6)
Lesson 6 (Sections 4.3.0 through Summary)

Module 18302-13 - Standpipes (25 Hours)
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 by 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-SEAL® installation procedures.

Lesson 7 (Sections 1.0.0 through 4.7.0)
Lesson 8 (Sections 5.0.0 through 7.0.0)
Lesson 9 (Sections 8.0.0 through 11.0.0)
Lesson 10 (Sections 12.0.0 through 13.5.3)
Lesson 11 (Sections 13.6.0 through Summary)

Module 18303-13 - Water Supplies (15 Hours)
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, perform 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.

Lesson 12 (Sections 1.0.0. through 3.1.2)
Lesson 13 (Sections 3.2.0 through 4.1.3)
Lesson 14 (Sections 5.0.0 through 5.4.0)
Lesson 15 (Sections 6.0.0 through Summary)

Module 18304-13 - Fire Pumps (40 Hours)
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 NFPA standard hat 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 different types of and requirements for fire pump controllers, discuss monitoring requirements for fire for the pumps, describe acceptance testing of 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.

Lesson 16 (Sections 1.0.0 through 1.7.2)
Lesson 17 (Sections 2.0.0 through 2.9.0)
Lesson 18 (Sections 3.0.0 through 3.18.2)
Lesson 19 (Sections 4.0.0 through 6.4.0)
Lesson 20 (Sections 6.5.0 through 6.10.0)
Lesson 21 (Sections 7.0.0 through Summary)
Module 18305-13 - Application-Specific Sprinklers and Nozzles (27.5 Hours)

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 for recess sprinklers, identify and explain nozzles, describe different types of nozzles, size and install dry sprinklers, and size and install an attic sprinkler.

Lesson 22 (Sections 1.0.0 through 2.3.3)
Lesson 23 (Sections 2.4.0 through 2.7.1)
Lesson 24 (Sections 2.8.0 through 2.11.2)
Lesson 25 (Sections 3.0.0 through Summary)

Series G, Level IV - 5 Modules

Upon completion of Level IV the trainee will be awarded 14.5 CEUs (145 Credit Hours).

Module 18401-13 - System Layout (45 Hours)

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.

Lesson 1 (Covering Sections 1.0.0 through 2.4.0)
Lesson 2 (Covering Sections 2.5.0 through 2.5.6)
Lesson 3 (Covering Sections 2.6.0 through 2.6.3)
Lesson 4 (Covering Sections 2.7.0 through 3.0.0)
Lesson 5 (Covering Sections 3.1.0 through 3.1.6)
Lesson 6 (Covering Sections 3.2.0 through Summary)

Module 18402-13 - Inspection, Testing, and Maintenance (17.5 Hours)

Upon completion of this module, the trainee will be able to describe the reasons 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 of special systems, explain the required procedures to test all types of valves, perform a main drain test, and complete inspection and testing of water-based and wet standpipe systems and complete the required documentation.

Lesson 7 (Covering Sections 1.0.0 through 2.3.0)
Lesson 8 (Covering Sections 3.0.0 through 4.4.0)
Lesson 9 (Covering Sections 4.5.0 through 5.2.0)
Lesson 10 (Covering Sections 5.3.0 through Summary)

Module 18403-13 - Special Extinguishing Systems (42.5 Hours)

Upon completion of this module, the trainee will be able to describe the three methods of heat transfer, explain the basic principles of 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, describe the different classes of foam concentrates and foam sprinkler system configurations, 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.

Lesson 11 (Covering Sections 1.0.0 through 3.4.2)
Lesson 12 (Covering Sections 3.5.0 through 4.3.2)
Lesson 13 (Covering Sections 4.4.0 through 6.1.5)
Lesson 14 (Covering Sections 6.2.0 through 6.5.3)
Lesson 15 (Covering Sections 7.0.0 through 8.4.0)
Lesson 16 (Covering Sections 9.0.0 through 10.3.3)
Lesson 17 (Covering Sections 10.4.0 through Summary)

Module 18404-13 - Introductory Skills for the Foreman (20 Hours)

Upon completion of this module, the trainee will be able to explain the foreman’s responsibilities to the project coordinating 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 changes on a shop drawing for as-builts, complete daily, weekly time, and progress reports, and identify and explain materials documentation.

Lesson 18 (Covering Sections 1.0.0 through 3.3.5)
Lesson 19 (Covering Sections 4.0.0 through 5.3.0)
Lesson 20 (Covering Sections 5.4.0 through 5.11.0)
Lesson 21 (Covering Sections 5.12.0 through Summary)

Module 18405-13 - Procedures and Documentation (20 Hours)

Upon completion of this module, the trainee will be able to recognize the consequences of improper system installation, identify the five Cs 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.

Lesson 22 (Covering Sections 1.0.0 through 3.2.0)
Lesson 23 (Covering Sections 4.0.0 through 4.1.0)
Lesson 24 (Covering Sections 5.0.0 through Summary)

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The AFSA correspondence training series for fire sprinkler fitters offers training for entry-level personnel or for those wishing to upgrade their skills. Those who complete the program will be able to advance to the journeyman level. The course is divided into four levels. Subjects covered in the four-level series are listed on pages 2-5.

Make A Commitment
Begin with a commitment by management to a training program. This sends a signal to your employees that training is important.

Explain the benefits of training to your employees. Let them know that improving their skills will increase their pay and help them advance within the company.

If you will convey this message to the employee before he or she is enrolled in the program, it can be used as an excellent incentive to promote the employee’s training and his/her advancement within the company.

A properly trained staff will save you money in efficient installation time and quality craftsmanship, just as an improperly trained staff will cost you money in defective design and incorrect installation. An employee who has received sufficient training will work more quickly and accurately and will increase your company’s productivity.

Selection
Apprentices should be at least 16 years of age and their selection should be based on ability, enthusiasm and integrity. Applicants should not be discouraged from completing high school. Experience, background and length of time in the fitter trade should be considered when determining the employee’s skill level. Attendance, work habits and attitude should also be evaluated.

Apprentices should be physically capable and mature enough to perform the work of the trade safely. Physical capability can be determined by an examination by a medical doctor chosen by your company. Apprentices also must have access to transportation to and from the jobsite.

To develop a good, reliable installation team, employers should screen potential trainees in the initial hiring process. Personal assessment, aptitude and drug testing are recommended so undesirable or unqualified workers are not hired. Such employees are an economic burden whether or not they are entered into a training program.

Remember — this is a long-term venture between the employer and the apprentice.

As noted earlier in this brochure, your company can benefit from using AFSA’s federally approved training program without registering it with a government agency. Your training program will still enable you to increase productivity, cut production costs and become more competitive. However, if you do not register your program and get it approved by DOLETA/SAC in your state, you will not receive wage concessions on government contracts.

Supervision
Each employer should designate a staff member (preferably a journeyman) to be responsible for the supervision of the apprentice’s on-the-job learning (OJL). This person should have field/installation experience so that they can answer technical questions and assist the trainee with the courses when necessary. This supervisor is also responsible for seeing that the apprentice is trained in all phases of the trade, including safety in the use of tools and equipment and jobsite conduct.

All apprenticeship training must be supervised; however, the time needed to properly do so is not excessive. Supervision is accomplished easily by a journeyman and a competent clerical employee.

The supervisor should coordinate his/her analysis of the trainee’s progress with the record keeper and use these records to monitor the apprentice’s progress throughout the program. By using this approach, supervisors can help the trainee meet his/her goals and correct any deficiencies as they are detected. Records are extremely important. In registered programs, the records may be audited.

If audited and found to have working apprentices that are not properly enrolled in a DOLETA/SAC approved apprenticeship program or the program fails to provide group or individual training away from the job site, the employer may be penalized and will have to pay back wages on all apprentices that were working at less than the Journeyman Davis-Bacon wage rate for that job. In addition, an employer could be subject to false claims if the employee is categorized as an apprentice but they are not in a DOL approved program.

Administration
Administrative procedures should be discussed with all program participants so that everyone will know his/her role in accomplishing company training goals. Defined task assignments will set clear guidelines to follow, which will minimize mistakes.
AFSA offers a placement test to help employers determine the appropriate training level for each trainee. The employer can use test results to assign the trainee to the appropriate fitter course. These tests are offered for Levels I and II only. Call AFSA for placement test information at (214) 349-5965.

To order your courses use AFSA's online store at firesprinkler.org or send a course order form (Appendix I) and payment to AFSA national headquarters. Supply the employee’s name and Social Security Number, identify which course level should be sent, and indicate if your student will utilize paper testing or online testing.

To ensure proper field training, a company should not have more apprentices than existing fitters. In some registered programs, the ratio of fitters to apprentices vary.

If advancement through the courses is to be completed in four years, a test should be completed every two weeks. The employee must be advised of this projected completion schedule so he/she can pace his/her studies accordingly. The training coordinator should monitor student progress to ensure that the schedule is met. The student study guide, included with each course order, will help you determine a testing schedule for your student.

To ensure that the apprentice is trained in all aspects of the trade, a journeyman should be in charge of directing and documenting the apprentice’s progress through the On-the-Job Learning (OJL) portion of the program (Appendix F). The importance of documented classroom or individualized training cannot be stressed enough. Most programs registered with federal or state apprenticeship agencies will require group or individualized training away from the job site. Simply giving an apprentice a copy of the training materials with instructions to read and take the appropriate tests is not enough and may not meet the requirements of most registered programs.

Each company must assign one staff member as the company’s Training Coordinator. This is the one person with whom AFSA will correspond regarding your students’ training in AFSA courses. The Training Coordinator should take total responsibility for the entire program’s administration and record keeping. This includes ordering the courses and maintaining files for proper documentation. Detailed record keeping is simple; however, it must be done regularly. For three to eight apprentices, the clerical work required averages two hours per week. It is recommended that each apprentice have a separate training file to store test records. This file should not be mixed with the company personnel files. For security reasons, AFSA will not release student information to anyone other than the Training Coordinator. You will give AFSA your Training Coordinator’s name and email address at the time you place your order.

Tests should be administered in a suitable location and must be monitored/proctored to ensure the integrity of the program. If testing online, select a computer with an Internet connection in a quiet area. Upon submitting each online test, the student will automatically receive his/her score. If paper testing, seat the apprentice in a quiet area. Upon completion, the student should return his/her tests to the training coordinator, to be mailed to AFSA national headquarters for grading. Students should never be allowed to make copies of the tests or leave the testing area with the test.

AFSA assumes that any correspondence course sold becomes the property of the company purchasing the book. In some cases, employees may purchase the course from the employer by reimbursing the employer for the cost of the course (see the Incentives section). Such arrangements are between the employer and employee. Unless notified otherwise, AFSA assumes that the correspondence course is owned by the company or individual that originally purchased the course.

After purchase, the course book is assigned to an individual student. There can be only one student assigned to each course sold. After the student successfully completes all lessons in the course, a certificate citing Continuing Education Units (CEU’s) earned is issued, and that course can no longer be used for additional students. It is intended that the textbook be used as a reference for students after completion of all lessons.

If a student drops out of the training program and does not complete the course assigned to him/her, the company may reassign that course to another person by notifying AFSA in writing. Your notice should include the former student’s name, Social Security Number, and AFSA-assigned Student ID number. It should also include the new student’s name and Social Security Number. Replacement tests may be obtained from AFSA for the newly assigned student. AFSA will provide Replacement Tests for Lessons 1, 2, and 3 at no charge. Tests for Lesson 4 and up are $15.00 each. Under no circumstances may a company purchase additional tests for a course assigned to a student who has completed all lessons and received a certificate for that course.

An apprentice taking over courses from a former employee should not, under any circumstances, take tests without receiving confirmation from AFSA of the change first.
Registration
If the purpose of your training program is to allow a wage concession for apprentices to perform federally funded (Davis-Bacon) or state-funded (Little Davis-Bacon) work, your company’s individual training program must be approved by the Department of Labor or State Apprenticeship Council in the state in which you are headquartered.

IMPORTANT: Purchasing and/or enrolling your employees in the AFSA apprenticeship course does not automatically register your company’s apprenticeship program. Once your company’s program has been registered with the government, each apprentice must be individually registered in that program.

To do this you must contact the Department of Labor, Employment and Training Administration (DOLETA) in your state, and/or a State Apprenticeship Councils (SAC) if you are in a SAC state. If you do not fully understand this requirement, please call AFSA at (214) 349-5965.

Most programs registered with federal or state apprenticeship agencies will require group or individualized training at your headquarters or a training facility away from the job site. Simply giving an apprentice a copy of the training materials with instructions to read and take the appropriate tests is not enough and may not meet the requirements of most registered programs.

AFSA members are encouraged to register their training programs with either the ETA or SAC (depending on your state). A good resource of registration information can be found at the DOLETA website: www.doleta.gov/oa/regulations.cfm

The ETA has representatives in each state whose job is to assist you in setting up your training program. The ETA regional offices can direct you to the Apprenticeship and Training Representative (ATR) closest to you (see ETA listings in the appendix). The ATR also can assist you in other training matters.

Whether you are headquartered in a ETA state or a SAC state, the ATR will help you get your training program approved. SAC states are listed in the appendix. These ATRs are more than willing to visit your place of business to assist you in filling out the required paperwork and answer any questions you may have about the program.

Apprentices who complete a registered program are eligible to receive a certificate from the Department of Labor signifying that they have achieved the journeyman level.

If you register your program, you will gain these advantages:

1. You will receive a waiver from age discrimination regulations. You will be able to specify the age level desired as a part of the requirement for a certain job.
2. You will be able to require apprentices to attend related training associated with the program, including work on AFSA correspondence courses, off normal duty time without pay.
3. You will be eligible for significant wage concessions on federally or state funded jobs.
4. You will be able to pay apprentices a percentage of the journeyman’s wages as specified in your registered apprenticeship standards.
5. You will qualify to pay your apprentices who are enrolled in an approved program less than the prevailing wage rate.
6. You will be able to take credit for a percentage of the trainee’s wages and any bona fide fringe benefits found prevailing in the industry to be used for an approved training program.
7. You will be allowed to pay less social security. The amount the contractor is credited goes to a third party responsible for training.

If you choose not to register your program, you will still benefit from the advantages of having a solid, up-to-date training program, as well as having trained and capable employees. In the long run, the results will show up in increased productivity and profits.

You will be able to specify the probationary period up to one year. Therefore, potential apprentices should be evaluated for suitability as a fire sprinkler fitter before they are entered into the training program.

After the probationary period up to one year in a registered ETA program, the employee is entered into an apprenticeship agreement with the U.S. Department of Labor. A form must be filled out completely and signed by the employee and the employer. It is then sent to the U.S. Department of Labor for registration into the apprenticeship program.

It is recommended that a ETA-approved and registered training trust agreement account be set up for accruing funds for training all technical and field employees. This account provides for education fund contributions and expenditures.
Incentives
Many companies use the progress of the employee in course work, attendance, attitude, and job performance as the criteria for reviews and raises. Some companies start an employee at the basic level at a salary that is one-half the journeyman rate. The employee is given a review every six months. If his/her performance is satisfactory in all the above-mentioned categories, he/she is given percentage raises that will gradually increase his/her salary to the journeyman rate by the end of the training. Each company is responsible for establishing the journeyman fitter wage scale. This gives the apprentice a predetermined goal.

Some companies charge the employee $6.00 a week until he/she has paid for the course. Some things are easier sold than given away. An employee appreciates a training program that he/she has invested in. The company could return the money after the course completion as an employee savings incentive.

Many employers will charge the $10.00 retake fee (assessed by AFSA when a student fails a test) directly to the student. This may improve the student’s study habits and, in turn, encourage the student to be more prepared when taking tests.

Certificate
All apprentices will receive certificates of completion for each volume/level of the AFSA correspondence course they successfully complete. After all 4 levels are completed the apprentice will receive a certificate denoting completion of the entire course series. Apprentices who complete a state-approved program are also eligible to receive a certificate from the U.S. Department of Labor signifying that they have achieved the journeyman level.

Apprentices also receive an identification card for each level they complete. This ID card cites the student’s name, level of training completed, and CEUs earned for that level.

Training Trust
Your company should consider setting up a training trust agreement as a funding vehicle for the future education and training of your field employees. The training can be classroom, correspondence courses, on-the-job training, seminars, videos, etc.

A training trust is a legally binding agreement that allows a company to set aside a portion of an employee’s wages to be used for training and education. In some cases, there are certain income tax advantages for companies using these agreements. The agreements are filed with and approved by the Department of Labor in the state where your company is located.

AFSA has received positive feedback from companies that have established trust agreements. They like the idea of having specific funds available for training when the need arises.

AFSA Apprenticeship Training Standards
AFSA has published National Apprenticeship and Training Standards for contractors to use as a guide when establishing an ETA/SAC-approved training program. These standards provide a description of the procedure to follow in setting up a company program. This includes policy, sample forms, apprentice wage structure and work processes. Call AFSA for a copy of this comprehensive booklet to use as a guide in setting up your program at (214) 349-5965 or download: www.firesprinkler.org/afsa7030.

When these standards were approved in January 1982, it was thought that contractors would form local Chapter apprenticeship committees (CACs) to collectively pool and train apprentices. However, most companies get approval to be an independent training entity using AFSA’s correspondence courses to fill the requirement for supplemental training. Always ask for a training ratio of one to one, as that is how the crews normally work. AFSA’s National standards can be a guide for your program, however, you must register your own program standards.

Firesprinkler.org/eTest
Once you’ve started the training program, bookmark this web page. At this site, Training Coordinators can look up test results, purchase retake codes, update contact information, view/print course study guides, and more.
Appendices

Appendix A ..........U.S. Department of Labor Regional Offices*
Appendix B ..........U.S. Department of Labor State Offices*
Appendix C ..........State Apprenticeship Agencies/Councils*
Appendix D ..........Apprenticeship Data Sheet and Testing Log
Appendix E ..........Unit Test Remarks
Appendix F ..........O.J.L. Log
Appendix G ..........Wage Structure Form
Appendix H ..........AFSA Training Opportunities
Appendix I ..........Order Form

*The addresses and telephone numbers listed in these appendices were provided by the U.S. Department of Labor and were current as of October 2014. If you find a listing that is no longer correct, contact the U.S. Department of Labor at (202) 693-2796 or visit their website at www.doleta.gov.
U.S. Department of Labor
Employment and Training Administration (ETA)

Regional Offices
(as of 10/15/14) Source: http://www.doleta.gov/oa/regdirlist.cfm

REGION I
Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, Vermont, Puerto Rico, Virgin Islands
Regional Director: Ms. Jill Houser
USDOL/ETA/OA
25 New Sudbury St.
JFK Federal Building
Room E-370
Boston, MA 02203
Telephone: 617/788-0177
FAX: 617/788-0304
Email: Houser.Jill@dol.gov

REGION II
Delaware, Washington, D.C., Maryland, Pennsylvania, Virginia, West Virginia
Regional Director: Mr. Thomas Bydlon
USDOL/ETA/OA
170 S. Independence Mall, West - The Curtis Center
Suite 820-East
Philadelphia, PA 19106-3315
Telephone: 215/861-4830
FAX: 215/861-4833
Email: Bydlon.Thomas@dol.gov

REGION III
Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
Regional Director: Mr. Garfield G. Garner, Jr.
USDOL/ETA/OA
61 Forsyth Street SW, Rm. 6T71
Atlanta, GA 30303
Telephone: 404/302-5478
FAX: 404/302-5479
Email: Garner.Garfield@dol.gov

REGION IV
Arkansas, Colorado, Louisiana, Montana, New Mexico, North Dakota, Oklahoma, South Dakota, Texas, Utah, Wyoming
Regional Director: Mr. Steve Opitz
USDOL/ETA/OA
525 Griffin Street, Rm. 317-L
Dallas, TX 75202
Telephone: 972/850-4681
FAX: 972/850-4688
Email: Opitz.Steve@dol.gov

REGION V
Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, Ohio, Wisconsin
Regional Director: Mr. Dean Guido
USDOL/ETA/OA
230 South Dearborn St., Rm. 656
Chicago, IL 60604
Telephone: 312/596-5500
FAX: 312/596-5501
Email: Guido.Dean@dol.gov

REGION VI
Alaska, Arizona, California, Hawaii, Idaho, Nevada, Oregon, Washington
Regional Administrator: Mr. Michael W. Longeuay
USDOL/ETA/OA
90 7th Street, Ste. 17-100
San Francisco, CA 94103
Telephone: 415/625-2230
FAX: 415/625-2235
Email: Longeuay.Michael@dol.gov
## U.S. Department of Labor
### Employment and Training Administration (ETA)

### State Offices of Apprenticeship
(as of 10/15/14) Source: [http://www.doleta.gov/oa/stateoffices.cfm](http://www.doleta.gov/oa/stateoffices.cfm)

<table>
<thead>
<tr>
<th>State</th>
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| Alabama | Medical Forum Bldg.  
950 22nd Street North, Rm. 648  
Birmingham, Alabama 35203  
205/731-1308 |           |
| Alaska | 605 W. 4th Avenue, Room G-30  
Anchorage, Alaska 99501  
907/271-5035 |           |
| Arizona | See Nevada contact. |           |
| Arkansas | Federal Building - Room 3507  
700 West Capitol Street  
Little Rock, Arkansas 72201-3204  
501/324-5415 |           |
| California | 801 I Street, Rm. 202  
Sacramento, CA 95814  
916/414-2389 |           |
| Colorado | U.S. Custom House  
721 19th Street - Room 465  
Denver, Colorado 80202-2517  
303/844-6362 |           |
| Connecticut | District of Columbia  
See Pennsylvania contact. |           |
| Florida | 61 Forsyth St. SW, Rm. 6T80  
Atlanta, GA 30303  
404/302-5483 |           |
| Georgia | 61 Forsyth St. SW, Room 6T80  
Atlanta, Georgia 30303  
404/302-5897 |           |
| Hawaii | 300 Ala Moana Blvd., Rm 5-117  
Honolulu, Hawaii 96850  
808/541-2519 |           |
| Idaho | 1387 S. Vinnell Way #110  
Boise, Idaho 83706  
208/321-2972 |           |
| Illinois | 230 S. Dearborn St., Rm. 656  
Chicago, Illinois 60604  
312/596-5508 |           |
| Indiana | Federal Building and U.S. Courthouse  
46 E. Ohio Street - Room 511  
Indianapolis, Indiana 46204  
317/226-7001 |           |
| Iowa | 210 Walnut Street - Room 715  
Des Moines, Iowa 50309  
515/284-4690 |           |
| Kansas | 444 SE Quincy St. - Room 247  
Topeka, Kansas 66603-3571  
785/295-2624 |           |
| Kentucky | Federal Building - Room 168  
600 Martin Luther King Place  
Louisville, Kentucky 40202  
502/582-5223 |           |
| Maryland | See Pennsylvania contact. |           |
| Michigan | 315 W. Allegan, Rm. 209  
Lansing, Michigan 48933  
517/377-1747 |           |
| Minnesota | See Illinois contact. |           |
| Mississippi | Federal Building  
100 West Capitol St., Rm. 771  
Jackson, Mississippi 35926  
601/965-4346 |           |
| Missouri | Robert A. Young Federal Bldg.  
1222 Spruce St., Rm. 9.102E  
St. Louis, Missouri 63103  
314/539-2522 |           |
| Nebraska | 222 S. 15th St., Ste. 504C  
Central Park Plaza, South Tower  
Omaha, Nebraska 68102-1608  
402/221-3281 |           |
| Nevada | 600 S. Las Vegas Blvd. Ste. 520  
Las Vegas, Nevada 89101  
702/388-6771 |           |
| New Hampshire | 55 Pleasant Rd.  
Concord, New Hampshire 03301  
603/225-1446 |           |
| New Jersey | J FK Federal Building, Rm. E-350  
15 New Sudbury St.  
Boston, Massachusetts 02203  
617/788-0153 |           |
| North Dakota | 304 Broadway, Rm. 332  
Bismarck, North Dakota 58501-5900  
701/250-4700 |           |
| Ohio | 46 E. Ohio St., Rm. 528  
Indianapolis, Indiana 46204  
317/226-7001 |           |
| Oklahoma | 215 Dean A. McGee Ave., Ste. 346  
Oklahoma City, Oklahoma 73102  
405/231-4338 |           |
| Oregon | See Washington contact. |           |
Pennsylvania  
Federal Building  
228 Walnut St., Rm. 356  
Harrisburg, Pennsylvania 17108  
717/221-3496  

South Carolina  
1835 Assembly St., Rm. 838  
Columbia, South Carolina 29201  
803/765-5547  

South Dakota  
221 S. Central Ave., Ste. 3  
Pierre, South Dakota  57501  
605/224-7983  

Tennessee  
Airport Executive Plaza  
1321 Murfreesboro Rd. Ste. 541  
Nashville, Tennessee 37217  
615/781-5318  

Texas  
300 E. 8th St., Ste. 914  
Austin, Texas  78701  
512/916-5435  

Utah  
125 State St., Rm. 2412  
Salt Lake City, Utah 84138  
801/524-5451  

Virginia  
See Pennsylvania contact.  

Washington  
300 Fifth Ave., Ste. 1260  
Seattle, Washington  98104  
206/757-6772  

West Virginia  
405 Capitol St., Ste. 409  
Charleston, West Virginia 25301  
304/347-5794  

Wisconsin  
See Illinois contact.  

Wyoming  
308 W. 21st St., Rm. 205  
Cheyenne, Wyoming 82001-3637  
307/772-2448  

Appendix B
State Apprenticeship Agencies/Councils (SACs)
(as of 1/7/15) Source:  http://www.doleta.gov/oa/stateagencies.cfm

Arizona
Arizona Commerce Authority
Apprenticeship Office
1789 W. Jefferson St.
PO Box 612
Phoenix, AZ  85007
602/542-2483
Fax: 602/542-2491

California
Division of Apprenticeship Standards
455 Golden Gate Ave., 9th Floor
San Francisco, CA  94102
415/703-4920
Fax: 415/703-5477

Connecticut
Connecticut Labor Department
Office of Apprenticeship & Training
200 Folly Brook Boulevard
Wethersfield, CT  06109-1114
860/263-6085
Fax: 860/263-6088

Delaware
Apprenticeship and Training Section
225 Corporate Blvd., Ste. 104
Newark, DE  19702
302/451-3419
Fax: 302/368-6604

District of Columbia
Office of Apprenticeship Information & Training
Dept. of Employment Services
4058 Minnesota Ave. NE, Rm. 3900
Washington, DC  20019
202/698-3530
Fax: 202/698-5721

Florida
325 W. Gaines St., Room 754
Tallahassee, FL  32399
850/245-9039
Fax: 850/245-9010

Guam
Planning Division, GDOL/AHRD
414 W. Soledad Ave., Ste. 400
Hagatna, Guam  96910
671/475-7078
Fax: 671/475-7045

Hawaii
Workforce Development Division
Department of Labor and Industrial Relations
830 Punchbowl St., Rm. 329
Honolulu, HI  96813
808/586-8877
Fax: 808/586-8822

Kansas
Kansas Dept. of Commerce
Apprenticeship Program
1000 SW Jackson St., Ste. 100
Topeka, KS  66612-1354
785/296-4299
Fax: 785/296-1404

Kentucky
Kentucky Department of Labor
Division of Employment Standards, Apprenticeship & Mediation
1047 U.S. Hwy.127 South, Ste. 4
Frankfort, KY  40601
502/564-3070
Fax: 502/696-5024

Louisiana
Louisiana Department of Labor
PO. Box 94094
1001 N. 23rd
Baton Rouge, LA  70802-3338
225/342-7819
Fax: 225/342-0209

Maine
Department of Labor
55 State House Station
Augusta, ME  04333-0055
207/623-7969

Maryland
Division of Labor & Industry
1100 North Eutaw Street, Rm. 606
Baltimore, MD  21201
410/767-2241
Fax: 410/767-3968

Massachusetts
Division of Apprentice Training
Department of Workforce Development
19 Stanford St. PO Box 146759
Boston, MA  02114
617/626-5407
Fax: 617/626-5427

Minnesota
Department of Labor and Industry
Apprenticeship Unit
443 Lafayette Road
St. Paul, MN  55155-4303
651/284-5090
Fax: 651/284-5740

Montana
Apprenticeship and Training Program
Montana Department of Labor & Industries
PO. Box 1728
Helena, MT  59624-1728
406/444-3556
Fax: 406/444-3037

Nevada
Nevada State Apprenticeship Council
c/o Office of the Nevada Labor Commissioner
555 E. Washington Ave., Ste. 4100
Las Vegas, NV  89101
702/486-2738
Fax: 702/486-2660

New Mexico
New Mexico Department of Workforce Solutions
Labor Relations Division
401 Broadway NE
Albuquerque, NM  87102
505/841-8077
Fax: 505/841-8491

Appendix C
New York
New York State Department of Labor
Division of Employment and Workforce Solutions
State Campus Building #12, Rm. 450
Albany, NY 12240
518/457-6820
Fax: 518/457-9526

North Carolina
Apprenticeship & Training Bureau
1101 Mail Service Center
4 W. Edenton St.
Raleigh, NC 27699
919/733-0327
Fax: 919/715-0303

Ohio
Ohio State Apprenticeship Council
Office of Workforce Development, ODJFS
RO. Box 1618
Columbus, OH 43216-1618
614/466-9948
Fax: 614/466-7912

Oregon
Apprenticeship and Training Division
Oregon State Bureau of Labor & Industries
800 N.E. Oregon St. Ste. 1045
Portland, OR 97232
971/673-0760
Fax: 971/673-0768

Pennsylvania
Bureau of Labor Law Compliance
PA Department of Labor and Industry
1301 Labor and Industry Building
651 Boas St.
Harrisburg, PA 17121
717/787-3681
Fax: 717/787-0517

Puerto Rico
Dept. of Labor & Human Resources
505 Munoz Rivera Ave.
San Juan, PR 00918
787/754-2119

Rhode Island
RI Department of Labor and Training
Division of Professional Regulation
1511 Pontiac Avenue, PO Box 20247
Cranston, RI 02920
401/462-8536
Fax: 401/462-8528

Vermont
VT Dept. of Labor, Apprenticeship
Division
5 Green Mountain Drive
PO. Box 488
Montpelier, VT 05601-0488
802/828-5082
Fax: 802/828-4374

Virginia
Division of Registered Apprenticeship
Virginia Dept. of Labor and Industry
600 E. Main St., Ste. 207
Richmond, VA 23219
804/225-4362
Fax: 804/786-8418

Virgin Islands
Virgin Islands Department of Labor
4401 Sion Farm
Christiansted, Saint Croix 00820
304/773-1994 ext. 2213

Washington
Department of Labor and Industries
RO. Box 44530
Olympia, WA 98504-4530
360/902-5320
Fax: 360/902-4248

Wisconsin
Department of Workforce Development
Bureau of Apprenticeship Standards
RO. Box 7972
Madison, WI 53707
608/266-3133
Fax: 608/266-0766

Appendix C
Apprenticeship Data Sheet and Testing Log

Summary
The Apprenticeship Data Sheet is used by the employer to keep records of the apprentice’s testing activity. This same Data Sheet can be used for each consecutive level in the Fire Sprinkler Apprentice Training Series by making copies.

Each time an apprentice takes a test, the Training Coordinator should record the dates under “Date Taken.” When the exam is mailed, it is recorded under “Date Mailed.” If doing paper testing, record the date the paper test is mailed to AFSA national headquarters for grading. The test will be graded and the scores (including the number of any questions missed) sent back, usually by email, to the Training Coordinator in the form of a Student Summary Report. The Training Coordinator will then record the date the Student Summary Report was received, whether the test was passed or failed, and the score. (Note: The Training Coordinator should keep a copy of each paper Test Answer Sheet that is sent in for grading in case a test is lost in the mail. This copy can be discarded after test results are received.)

A test score of 70+ is passing. If a student fails a paper test, AFSA will send a paper retake test to the Training Coordinator. When submitting paper retake tests to AFSA for grading, a $10.00 retake test fee should be included. If a student fails an online test, after a waiting period, the system will allow the student to retake the test once a $10 retake code is applied.

ACCURACY IS A MUST ON THIS DATA SHEET. Many times an employer will refer to this form for dates of a test that may not have been returned, to find out if the test has to be retaken, or to review progress and overall scores of the apprentice’s tests.
# Apprenticeship Data Sheet and Testing Log

**NAME:** ____________________________________________________________

**ADDRESS:** _________________________________________________________

**HIRE DATE:** ________________________

**PROGRAM:** ________________________

**CITY/STATE/ZIP:** ________________________________

**PHONE:** ____________

**DATE ENROLLED:** ___________________

**BIRTHDATE:** __________________________________

**AGE:** _________________

**COMPLETION DATE:** _________________

**SOC. SECURITY #:_______________**

**PHYSICAL:** _______________

**CERTIFICATE REC’D.: ________________**

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<tr>
<td>Unit 22</td>
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<td>Unit 23</td>
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<td>Unit 25</td>
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<table>
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<tr>
<th>Retest Date</th>
<th>Pass/Fail</th>
<th>Score</th>
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<th>2nd Retest Date</th>
<th>Pass/Fail</th>
<th>Score</th>
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<tbody>
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</tbody>
</table>
Unit Tests Remarks

Summary
Use the Unit Test Remarks sheet to record any information about the testing progress or tests that would not fit on the Apprentice Test Sheet. Tracking the testing process will better enable you to see the progress of the apprentice at-a-glance. This sheet can be copied for each apprentice.
<table>
<thead>
<tr>
<th>Unit</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Unit 1</td>
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<td>Unit 2</td>
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<td>Unit 11</td>
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<td>Unit 13</td>
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<td>Unit 14</td>
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<td>Unit 15</td>
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<td>Unit 16</td>
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<td>Unit 17</td>
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<td>Unit 18</td>
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<td>Unit 19</td>
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<td>Unit 20</td>
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<tr>
<td>Unit 21</td>
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<td>Unit 22</td>
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<td>Unit 23</td>
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<tr>
<td>Unit 24</td>
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<tr>
<td>Unit 25</td>
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</tbody>
</table>
Log

Summary
The apprentice O.J.L. log form is used to keep a record of the apprentice’s field training. This form can be copied for each apprentice in your training program.

The O.J.L. log is filled out completely by the Superintendent each week. This form is important in order to keep accurate records of the employee’s time. The form will show if an employee is getting enough training in certain fields and not enough in other fields. The employee must achieve a certain amount of O.J.L. time in each category for his/her apprenticeship training.

A sample O.J.L. log is on the following page. A more detailed On-the-Job Log is available for download at www.firesprinkler.org/afsa-ojl/.

NOTE: O.J.L. stands for “On the Job Learning” and now replaces the former O.J.T. term.
<table>
<thead>
<tr>
<th>O.J.L. Log</th>
<th>Approximate Hours</th>
<th>Credit for Schooling</th>
<th>Credit for Work Related Experience</th>
<th>Date</th>
<th>Class #1</th>
<th>Class #2</th>
<th>Class #3</th>
<th>Class #4</th>
<th>Class #5</th>
<th>Class #6</th>
<th>Class #7</th>
<th>Class #8</th>
<th>Class #9</th>
<th>Class #10</th>
<th>Total Hours</th>
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</thead>
<tbody>
<tr>
<td>Name</td>
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<td>Entered Program</td>
<td>Maintenance and Repair</td>
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<td>750</td>
<td>750</td>
<td>1250</td>
<td>650</td>
<td>650</td>
<td>1600</td>
<td>500</td>
<td>500</td>
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<td>Accessories</td>
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<tr>
<td>Installation of Fire Pumps &amp; Special Hazard Installation</td>
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<td>1250</td>
<td>650</td>
<td>1600</td>
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<td>Standpipe System</td>
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<tr>
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<tr>
<td>Piping &amp; Accessories</td>
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<td>Installation of Underground Pipe Cutting, Threading, Reaming &amp; Welding</td>
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<tr>
<td>Preparation of Tools, Material &amp; Equipment</td>
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<td>Care of Tools, Materials &amp; Equipment</td>
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<tr>
<td>First Aid &amp; Safety</td>
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</tbody>
</table>

Appendix F
SPRINKLER FITTER

Wage Structure and Basic Company Package

Year: ______________________

WAGE

Foreman: _______________________________
Journeyman: ___________________________
Class #10: _____________________________
Class #9: ______________________________
Class #8: ______________________________
Class #7: ______________________________
Class #6: ______________________________
Class #5: ______________________________
Class #4: ______________________________
Class #3: ______________________________
Class #2: ______________________________
Class #1: ______________________________
More Training Opportunities Provided by AFSA…

**Residential Installer Training**
Residential Fire Sprinkler System Installation Guide

This course teaches installers the techniques for residential fire sprinkler system installation according to the 2007 edition of NFPA 13D, Standard for the Installation of Sprinkler Systems in One-and Two-Family Dwellings and Manufactured Homes. Purchase of the book, in either English or Spanish-language version, includes accompanying A/V instruction on DVD.

**AFSA Members:** $250.00*  
**NonMembers:** $450.00*  
* with online testing

**Foremanship Training for Fire Sprinkler Fitters**  
The Leadership Ladder

This course teaches the newly promoted fire sprinkler foreman to manage projects from beginning to end. This 24-lesson course guides the new foreman through supervision of a fire sprinkler installation project & the other employees working that job. It also includes more than 40 pages of sample forms necessary to help manage a project, such as Change Order, Request for Information, and Employee Injury Report.

**AFSA Members:** $350.00*  
**NonMembers:** $550.00*  
* with online testing

**Estimating, Bidding, Selling & Contracting for Fire Sprinkler Systems**

Based on proven techniques and best practices of successful fire sprinkler contractors across the country, Estimating, Bidding, Selling, and Contracting for Fire Sprinkler Systems is a detailed guide to selling fire sprinkler systems - from receiving the bid request to the post-bid review. This guide has over 300 pages of practical advice and sample forms for estimating, checklists and other materials that any fire protection company, large or small, can use to produce competitive bids.

**AFSA Members:** $150.00  
**NonMembers:** $250.00

**Beginning Fire Sprinkler System Planning School**

AFSA’s Beginning Fire Sprinkler System Planning School presents a comprehensive, practical approach to preparing fire sprinkler system drawings. Students receive two full weeks of instruction, 60 percent of which is study and review of NFPA 13 (2016 edition). The other 40 percent is preparation of fire sprinkler system layout, shop drawings and hydraulic calculations. The school is designed to train a beginner to be productive immediately upon returning to work. It will prepare the student to:

- Accelerate the comprehension of plans & various types of building construction for proper sprinkler spacing application.
- Determine the proper & economical planning of fire sprinkler system layout & installation methods.
- Know the importance of sprinkler specifications, types of pipe, hangers, fittings, flow tests, etc.
- Learn to develop shop drawings from start to finish.
- Learn to coordinate with other trades – plumbing, mechanical, structural, and electrical.
- Perform manual Hydraulic Calculation exercises on 2 different types of applications: a tree system and looped main system. This prepares the student for an easier decision-making process when using a computer to perform hydraulics.
- Prepare shop drawings in class for projects with different applications.

For details or request a registration form, contact the Education Dept. at (214) 349-5965 x132 or visit firesprinkler.org.

American Fire Sprinkler Association  
www.firesprinkler.org  •  (214) 349-5965

Appendix H
**AFSA Correspondence Courses Order Form**

For complete details about these courses, visit www.firesprinkler.org/training/.

Note: All prices listed are per level, and there is a $10 re-take fee for any failed test.

### Apprenticeship Training Series with Apprentice Training DVDs
The Apprenticeship Training Series is a federally approved training course for fire sprinkler fitters. This practical training program, written from a contractor’s point of view, now comes with Apprentice Training DVDs. Be sure to specify the course level when ordering.

<table>
<thead>
<tr>
<th>Item</th>
<th>Online Testing Only</th>
<th>Paper Testing Option</th>
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<tbody>
<tr>
<td>AFSA Member Price</td>
<td>$350</td>
<td>$375</td>
</tr>
<tr>
<td>Non-Member Price</td>
<td>$550</td>
<td>$575</td>
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</table>

**NOTE:** Require Proctor Password

### Designer Series Correspondence Course
The Applied Sprinkler Technology Series – Levels I, II, III is based on the 1999 ed. of NFPA 13 and trains designers on all aspects of fire sprinkler technology and design. Be sure to specify the course level when ordering. Visit SprinklerECampus.com for updated courses.

<table>
<thead>
<tr>
<th>Item</th>
<th>Online Testing Only</th>
<th>Paper Testing Option</th>
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<tbody>
<tr>
<td>AFSA Member Price</td>
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<td>$300</td>
</tr>
<tr>
<td>Non-Member Price</td>
<td>$450</td>
<td>$500</td>
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</table>

**NOTE:** Require Proctor Password

### Foremanship Training for Fire Sprinkler Fitters
This 24-lesson course guides the new foreman through supervision of a fire sprinkler installation project and the other employees working that job. It also includes more than 40 pages of sample forms necessary to help manage a project.

<table>
<thead>
<tr>
<th>Item</th>
<th>Online Testing Only</th>
<th>Paper Testing Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFSA Member Price</td>
<td>$350</td>
<td>$375</td>
</tr>
<tr>
<td>Non-Member Price</td>
<td>$550</td>
<td>$575</td>
</tr>
</tbody>
</table>

**NOTE:** Require Proctor Password

### Residential Fire Sprinkler System Installation: A Guide to Installation Techniques For Residential Systems
This course teaches installers the techniques for residential fire sprinkler system installation according to NFPA13D, Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes.

<table>
<thead>
<tr>
<th>Item</th>
<th>Online Testing Only</th>
<th>Paper Testing Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFSA Member Price</td>
<td>$250</td>
<td>$300</td>
</tr>
<tr>
<td>Non-Member Price</td>
<td>$450</td>
<td>$500</td>
</tr>
</tbody>
</table>

**NOTE:** Require Proctor Password

### Student Information
- Name
- Email
- Social Security #

### Company Information
- Name
- Address
- Phone
- Fax
- Training Coordinator
- Coord. Email

*Training Coordinator is the designated contact for all matters pertaining to students and for their related training.

### Payment
(Note: Orders cannot - and will not - be processed without payment.)
- [ ] Check
- [ ] American Express
- [ ] Discover
- [ ] MasterCard
- [ ] Visa

**Card Number**

**Exp. Date**

**Verify your card (required):**

**Zip Code**

**Security Code**

**Authorized Signature**