

**CALIFORNIA APPRENTICESHIP  
COUNCIL**

**PIPE TRADES INDUSTRY  
SPRINKLER FITTER ADVISORY COMMITTEE**

**Minimum Industry Training Criteria**

# CALIFORNIA APPRENTICESHIP COUNCIL PIPE TRADES INDUSTRY

---

## FIRE SPRINKLER FITTER ADVISORY COMMITTEE MINIMUM INDUSTRY TRAINING CRITERIA

### **Introduction:**

### **Occupation O\*Net Code 47-2152.01F**

#### 1. Length of Training

The length of training for a fire sprinkler fitter shall be a minimum of 7,000 hours O. J. T: (on the Job Training) and not less than 700 hours R. S. I. (Related Supplemental Instruction).

#### 2. **Related Supplemental Instruction**

*See appendix "A."*

#### 3. **On the Job Training**

*See works processes appendix "B."*

#### 4.. **Competency Testing**

All apprentices shall, pass course competency tests based on Related Supplemental Instruction (RSI) before being advanced to the next higher level.

#### 5. **Completion Percentages**

Program sponsors who are not able to demonstrate a completion rate Of 60 % of the apprentices indentured into their program after the, stated probationary period will be subject to review by the D.A.S. The average number of apprentices indentured per year less apprentices removed during probationary period- versus average number of apprentices graduating per year over a five-year period. It is recommended that all program sponsors reconcile completion percentages with the D.A.S. annually.

CALIFORNIA APPRENTICESHIP COUNCIL  
PIPE TRADES INDUSTRY

---

SPRINKLER FITTER  
ADVISORY COMMITTEE

## Appendix "A"

1. Trade safety / 10 Hour O.S.H.A. / Motorized Lift Equipment Safety Training.
2. C. P. R. / First Aid.
3. Trade math.
4. Sprinkler Head Types, Application & Operation.
5. Copper Soldering & Brazing.
6. Knot Tying & Rigging.
7. Tools of the trade.
8. Pipe, Fittings, Valves, Hangers and Seismic Restraints.
9. Applicable Installation Standards.
10. Wet Systems.
11. Dry Systems,
12. Special Systems, Pre-Action, & Environmentally Friendly Systems (water mist systems/ Fire Cycle)
13. Foam and Co2 Systems.
14. Underground Piping / Competent Person Training in Excavation and Trenching.
15. Fire Pumps
16. Inspection, Testing & Maintenance (Environmentally Friendly Practices-water recovery / de-chlorination)
17. Back flow prevention.
18. Alarms.
19. Hydraulics / Pipe Schedule Systems.
20. Reading plans, Sprinkler & Architectural
21. Isometric drawing
22. Economics of the Sprinkler Industry & (material efficiency – waste reduction)
23. Human Relations/ Foremanship
24. Green Practices:
  - Water Control & Recycling
  - Material efficiency and recycling
  - Waste reduction
  - Introduction to the Leadership in Energy & Environmental Design Program (LEED)
  - Operation and Maintenance Optimization

CALIFORNIA APPRENTICESHIP COUNCIL  
PIPE TRADES INDUSTRY

---

SPRINKLER FITTER  
ADVISORY COMMITTEE

APPENDIX B

WORK PROCESSES  
SPRINKLER FITTER

*O\*Net Code 47-2152.01F*  
(This replaces the old D.O.T. code)

	<u>APPROXIMATE HOURS</u>
A. pipes for various types of overhead and fire control systems <i>inclusive of green practices</i> <i>(material efficiency – waste reduction)</i>	4,000
B. Install underground pipes and water supplies; <i>control and recycling of water</i> <i>(water recovery / de-chlorination)</i>	700
C. Install devices and special equipment.	350
D. Maintain, repair, <b>test</b> and operate automatic sprinkler and fire control systems <i>with environmentally friendly practices.</i>	700
E. Handle, <i>efficiently distribute</i> and <i>recycle materials,</i> and proper use and care of tools.	700

\*These are recommended minimums and individual and individual program sponsors should review and try to meet these items. A,B,C,D. & E may be combined in different hours totals to meet the minimum of 7,000 hours.

CALIFORNIA APPRENTICESHIP COUNCIL  
PIPE TRADES INDUSTRY

---

SPRINKLER FITTER  
ADVISORY COMMITTEE

The following is a list of representatives from the signatory sector, who have agreed to represent the Fire Sprinkler Industry.

Employee Representatives

Stanley M. Smith, Business Manager  
Sprinkler Fitters U.A. Local 483  
2525 Barrington Court  
Hayward, CA 94545  
(510) 785-8483  
stan@sprinklerfitters483.org

Linda Loeffler, Administrator  
Sprinkler Fitters U.A. Local 483 J.A.C.  
2531 Barrington Court  
Hayward, CA 94545  
(510) 782-9483  
linda@sprinklerfitters483.org

John R Holmes, Director of Training  
Sprinkler Fitters U.A. Local 709 J.A.C.  
12140 Rivera Road, Suite B  
Whittier, CA 90606  
(562) 907-7622  
johnh@sprinklerfitters709.org

Employer Representatives

Bob Lawson, President  
Superior Automatic Sprinkler  
308 Sango Court  
Milpitas, CA 95035  
(408) 946-7272  
blawson@superior-fire.com

Mike Ayers, Secretary Treasurer  
Qualco Fire Protection, Inc.  
11850 Hamden Place  
Santa Fe Springs, CA 90670  
(562) 949-2266  
mike@qualcofire.com

CALIFORNIA APPRENTICESHIP COUNCIL  
PIPE TRADES INDUSTRY

---

SPRINKLER FITTER  
ADVISORY COMMITTEE

The following is a list of representatives from the Open Shop sector, who have agreed to represent the Fire Sprinkler Industry.

Employer Representatives

Tom McKinnon  
c/o Aegis Fire Protection  
500 Boulder Court  
Pleasanton, CA 94556  
(925) 417-5550  
tmckinnon@aegisfire.com

Tim Higgins  
c/o Aegis Fire Protection  
500 Boulder Court  
Pleasanton, CA 94556  
(925) 417-5550  
higgins2@flash.net

Matt Cetani  
c/o NORCAL Fire Protection  
16840 Joleen Way, Bldg. "A"  
Morgan Hill, CA 95307  
(408) 776-1580  
matt@norcalfire.com

Employee Representative / Trainer

Paul Rickets  
c/o Foothill Fire Protection  
36 Bellarmine Court  
Chico, CA 95928  
(530) 826-3013  
paul@ffprotection.com

CALIFORNIA APPRENTICESHIP COUNCIL  
PIPE TRADES INDUSTRY

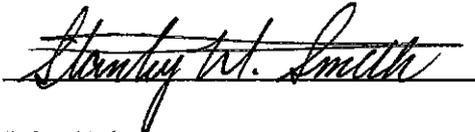
---

SPRINKLER FITTER  
ADVISORY COMMITTEE

Signature Page:

Union Labor Management Program Sponsors:

Stanley M, Smith (Co-Chair)



Mike Ayers



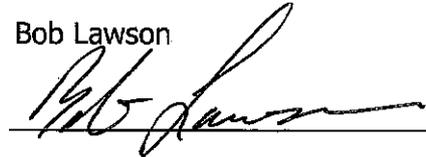
John Holmes



Linda Loeffler

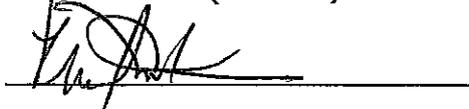


Bob Lawson



Unilateral Program Sponsors:

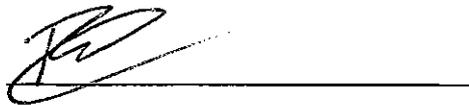
Tom McKinnon (Co-Chair)



Matt Cetani



Paul Ricketts



Tim Higgins



September 29, 2010