



Steamfitter, Pipefitter, Industrial Pipefitter

Industry Training Criteria

April 2003

Steamfitter/Pipefitter/Industrial Pipefitter Industry Standards

DOT 862.281.02B

1. Length of Training

Program sponsors shall establish a minimum 5-year program of not less than 7,500 hours of on-the job training.

2. Related and supplemental Instruction

The required prescribed courses of related and supplemental instruction shall be no less than 216 hours per year. This instruction must include at a minimum the related and supplemental training processes listed in Exhibit "A".

3. On the Job Training

(Skills to be learned) See Exhibit "B"

4. Competency Testing

All apprentices must pass a competency test prior to the time of their classification advancement to the next higher period. The tests shall be based on all Related and Supplemental Instruction and manipulative skills test's based on laboratory assignments.

5. Completion Percentages

Program sponsors must have a 55% graduation rate of all apprentices that satisfactorily complete the program's probationary period.

6. Revisions

The schedule for revisions to the Steamfitter/Pipefitter/Industrial Pipefitter industry training criteria shall be in accordance with Section 212.01

EXHIBIT "A"
DOT 862.281.02B

Related and supplemental instruction topics for
Steamfitter, Pipe Fitter, and Industrial Fitter.

1. Orientation and safety
2. Piping mathematics and formulas
3. Copper soldering and brazing
4. Acetylene welding and burning
5. Pipe and equipment rigging
6. Drawing, isometrics, spool sheets and construction drawing interpretation
7. Steam heating and hydronics
8. Valve repair and maintenance
9. Related science
10. Pneumatics, instrumentation, process and control
11. Arc welding and two (2) more of the following weld processes:
 - A. Orbital Welding
 - B. S.M.A.W.
 - C. F.C.A.W.
 - D. G.M.A.W
12. Computer literacy and CAD (Computer-Aided Drawing) instruction
13. Clean room protocol, plastic fusion processes
14. Awareness of new and emerging technology

EXHIBIT "B"

Work Process:

1. **Installation:** This section shall include approximately 6,500 hours covering experience in the following processes.
 - A. Piping and equipment conveying solids, slurries, powders, liquids, steam, or gas. (This may include but is not limited to waste, vent, water and drain piping.)
 - B. Different types of pipe material (this may include but is not limited to copper, plastic, steel, ferrous and non-ferrous piping.)
 - C. Air conditioning equipment, heating and or cooling and related components.
 - D. Start, test and balance.

2. **Maintenance:** This section shall include approximately 1,000 hours covering experience in the following processes.
 - A. Repair, operation and use of related equipment, piping and tools.
 - B. Demolition and rehabilitation.

**TOTAL NUMBER OF REQUIRED HOURS FOR
GRADUATION IS 7,500**

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