

Cement Mason Industry Training Criteria

October 2010

CEMENT MASON INDUSTRY

O'NET Code 47-2051.00

LABOR CODE SECTION 212.01

Paragraph 3 – Minimum Requirements

1. LENGTH OF TRAINING

Program sponsors shall establish a minimum three (3) year program of not less than 4,200 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 144 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 course competency tests, which are based on related and supplemental instruction, and manipulative skills test's based on field/laboratory assignments.

5. COMPLETION PERCENTAGES

Program sponsors must have a 40% completion of all apprentices that satisfactorily complete the program's probationary period.

6. REVISIONS

There shall be a review once every three years in accordance with Labor Code Section 212.01 or at the call of the Chairman of the Cement Mason Industry Advisory Committee if issues arise.

EXHIBIT "A"

RELATED AND SUPPLEMENTAL INSTRUCTION TOPICS FOR CEMENT MASON INDUSTRY TRAINING CRITERIA

DOT CODE 844.364.010

RELATED AND SUPPLEMENTAL INSTRUCTION

1. Orientation, History of Cement Industry, Labor & Management Relations, Safety & First Aid
2. Forming Tools, Hand Tools, Power Tools, Miscellaneous Equipment, Small Engines: Operations & Servicing
3. Basic Math, Measuring, Estimating
4. Leveling Instruments: Builders Level, Laser Beam, Transit
5. Concrete Ingredients
6. Designing Concrete Mixes, Admixtures, Specifications & Testing
7. All Concrete Forms, including, but not limited to: Edge Forms on Grade, On-Grade Curb & Gutter Forms, Screeds & Bulkheads
8. Placing & Leveling Concrete
9. All Finishing Concrete Processes, including, but not limited to: Finishing Concrete Floors, Finishing Concrete Roofs, Finishing Concrete Steps, Finishing Sidewalks & Patios, Finishing Concrete Drives, Approaches, Curbs, Curbs & Gutter, Pavements, Concrete Bases, Tilt-Up Panels, Precast and Lift Slab. Finishing footings and concrete base structures for the purpose of solar and wind energy, may be offered as an elective course.
10. All Concrete Restoration, including, but not limited to: Staining, Etching, Polishing, Overlay and Waterproofing.
11. Joints in Concrete, Curing, Protection
12. Blueprints: Reading & Interpreting, Architects Scale
13. Concrete Patching & Related Processes, Grinding/Rubbing & Sacking, Surface Defects: Prevention's & Remedies, and Green Concrete Construction, including, but not limited to pervious and polished concrete.

Exhibit A – Continued

14. Epoxy, Epoxy Injection and Materials

15. Green Topics:

- Understanding LEED and the relation it has with green construction.
- Roll of concrete in reducing energy usage.
 - a) Thermal
 - b) Reflective
- Recycling of cured concrete and concrete in its plastic stage.
- How concrete can help manage storm water runoff.

EXHIBIT "B"

WORK PROCESSES FOR CEMENT MASON INDUSTRY TRAINING CRITERIA DOT CODE 844.364.010

<u>ON THE JOB TRAINING</u>	<u>HOURS</u>
A. Site Preparation	950
B. Placing and Finishing Concrete	1,050
C. Steps and Base	300
D. Curb and Gutter (all types)	650
E. Concrete Repair	750
F. Machine Operations	300
G. Mastic and Magnesite – Composite Work - Green Concrete Construction, including, but not limited to, pervious and polished concrete.	200
Total number of minimum hours	4,200

**Cement Masons Industry Training Committee Members
October 2010**

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The foregoing Cement Mason Industry Training Criteria is hereby agreed to and adopted October 2010.

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