

**MINIMUM  
INDUSTRY  
TRAINING  
CRITERIA**

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**TILE FINISHER**  
**O\* NET CODE 47-3011.00F**

**TILE INDUSTRY ADVISORY COMMITTEE  
PRESENTED to the CALIFORNIA APPRENTICESHIP COUNCIL  
Revision 2**

**Rev: October 29, 2010**

## **Minimum Industry Training Criteria for Tile Finisher**

Cal. Admin. Code title 8, § 212.01212.01 State-Wide Minimum Industry Training Criteria

### **1. Length of Training**

Program sponsors shall establish a minimum two (2) year program of not less than 2100 hours of on the job training.

### **2. Related Supplemental (Classroom) Instruction**

The required prescribed course of related and supplemental instruction shall be no less than 80 hours per year and include the related and supplemental training processes listed on appendix A.

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

See APPENDIX B: Tile Finisher Work Processes

### **4. Competency Testing**

All apprentices must demonstrate proficiency through written examinations and manipulative testing prior their classification advancement to the next higher level. The test shall be based on their related and supplemental instruction”)

### **5. Apprenticeship program Completion Percentages**

Of those apprentices that satisfactorily complete the probationary period, program sponsors must have a completion rate of no less than 35%

### **6. Procedures for Review and Revision of Training Criteria**

The Tile Industry Advisory Committee shall meet at the call of the chair or no less than once each three (3) years to review and revise if necessary the industry training criteria. Any and all such industry training criteria for Tile Finisher shall be in accordance with the California Code of Regulations, Title 8, section 212.01 in its entirety.

## APPENDIX A: Tile Finisher Related Supplemental Instruction

### 1. Orientation to The Tile Trade/Health & Safety:

- a. Terms and definitions
- b. Brief history & scope of masonry trade and apprenticeship
- c. Advantages of apprenticeship
- d. Basics, rules and regulations of the apprenticeship program
- e. ANSI standards and the TCNA Handbook
- f. OSHA Safety Rules and Regulations
- g. Sexual harassment and non-discrimination in the workplace
- h. Ways EEOC rules affect the apprenticeship program
- i. Expectations of the employer and the employee in their relationship
- j. Guidelines for handling the first day on the job
- k. Ways to get along with a supervisor
- l. Ways to get along with co-workers
- m. Reasons people lose jobs
- n. Developing a good safety attitude
- o. Protecting the environment in the work place (environmental awareness) (green)

#### Health and Safety:

Physical hazards, health hazards, overuse syndromes, protective equipment, scaffolding safety, safety and the law, protecting others and substance abuse training. Protecting the environment in the work place (Environmental Awareness), Introduction to Leadership in Energy and Environmental Design (LEED) as it relates to the installation of ceramic tile and stone (Green)

### 2. Mud Mixing / Bonding Materials:

- A. Mortar Method: Terms and definitions, cement, sand, lime, water, additives, hydration and curing, Hand mixing, power mixing, mud math and rough-in,
- B. Bonding Materials: Cementitious Types and Mixing, Mastics, Epoxies and Mixing, Surface Preparation
  - a. Enhanced environmental practices for the handling and disposal of materials (green)

### 3. Math I & II:

- A. Basic Math Review
- B. Metrics

### 4. Tile and Trim / Materials Handling:

- A. Tile and Trim: Ceramic tile types, trim (standard, ceramic mosaic and quarry)
- B. Cutting Equipment and Cuts
- C. Materials Handling: Equipment, stocking, estimating quantities and clean-up
- D. Use of energy conserving tile and trim (green)
- E. Emerging green materials and practices in the installation of tile & stone (green)

## **5. Grouting / Caulking:**

- A. Grouting Objectives
- B. Variables: Grout type, joint size, weather (environment) and backing
- C. Basic Tools and Methods: For 4-1/4, ceramic mosaic, quarry / hard pavers, acid cleaning with vinegar, muriatic and sulfamic acids and acidic detergents. Wide joints, problem installations
- D. Caulking: Narrow, un-backed joints, expansion joints, design, installation
- E. Stain removal, sealing
- F. Epoxy grouting

## **6. Manipulative skill tests.**

These tests require the apprentice to demonstrate sufficient skill to complete finisher tasks for the following projects with a score of 90% or better.

- a) Shower stall
- b) Tub with a window
- c) Commercial Floor
- d) Kitchen
- e) Vanity
- f) Final test to, Waterproof, Prep and Grout a Shower with Stone or Tile.

## APPENDIX B: Tile Finisher Work Processes

<u>Work Process</u>	<u>Approximate Hour</u>
1. Surface Preparation	150
2. Materials handling	250
3. Equipment use and maintenance	225
4. Mixing mortar, epoxy, resins, cement	450
5. Grouting and Finishing of Tile work	750
6. <u>Cleaning Tile surfaces</u>	<u>275</u>
Total Hours	2100



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The minimum training criteria for Tile Finisher, O\*NET 47-3011.00F is hereby adopted and submitted for approval to the Chief of the Division of Apprenticeship Standards on October 15, 2010 by the California Apprenticeship Council Tile Industry Advisory Committee

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