

Industry Training Criteria

Marble Mason/Setter – O*NET 47-2022.00

A Masonry Trades Advisory Committee Report

**Presented to the California Apprenticeship Council
October 15, 2010**

Industry Training Criteria

Marble Mason

1. **Length of Training**

- Minimum of three years
- Minimum of 4,200 work hours

2. **Related Supplemental Instruction**

Marble Mason Apprentices shall satisfactorily complete prescribed courses of related and supplemental instruction which will be no less than 132 hours per year and include the related and supplemental training processes listed on attachment A.

3. **On the Job Training**

See attachment B.

4. **Competency Testing**

All apprentices must pass a competency test prior to their advancement to the next pay period. The tests shall be based on their related and supplemental instruction.

5. **Apprenticeship Program Completion Percentages**

Program sponsors must have a 50% graduation rate for apprentices that satisfactorily progress beyond the probationary period.

6. **Green Training**

Apprentices will receive training on the evolving green construction movement. They will learn how masonry materials, building design, construction methods and techniques contribute to green construction. Apprentices will be familiarized with the LEED green building certification system.

7. **Procedures for Review and Revision of Training Criteria**

The Masonry Trades Advisory Committee shall meet at the call of the chair or no less than once each three years to review and revise, if necessary, these industry training criteria. Any and all industry training criteria for marble masons shall be in accordance with California Code of Regulations, Title 8 Section 212.01.

Attachment A

Related and Supplemental Instruction

Marble Mason/Setter O*NET 47-2022.00

Blueprint reading

Building Codes

Construction Sequence

Dimensions and Trade Math

Epoxy injections

Green Construction, materials, methods and techniques

Hand tools and equipment, proper use and safety

Hand-Set techniques

Illegal discrimination and sexual harassment

Laying and cutting of building units (cutting and setting, pointing of Marble and other ornamental stone)

Laying and setting on footings and foundations

Marble Setting Fundamentals

Materials, identification, characteristics, and estimating

Mechanical Anchoring

Mixing mortar

Moving, Storage, Rigging

OSHA-10

Plain exterior Marble work (Straight wall work, back up Marble; veneering.

Pointing Cleaning caulking

Read a rule

Safety and first aid

Scaffold safety training

Trade History

Attachment B

The major work processes in which apprentices will be trained (although not necessarily in the order listed) and the approximate hours (not necessarily continuous) to be spent on each are as follows:

	Marble Mason/Setter	O*NET 47-2022.00
A.	Laying setting Marble building units	1,700 hours
B.	Laying setting on footing and foundations	600 hours
C.	Pointing, Cleaning, Caulking: Restoration	300 hours
D.	Installation of Building Units	700 hours
	1. Cutting, and setting of Marble	
	2. Mixing mortar, cement, and patent mortar, bonds.	
	3. Building footings and foundations.	
	4. Plain exterior Marble, straight walls, backing up Marble.	
	5. Building arches, quoins, columns, and piers.	
	6. Building Marble panels.	
	7. Epoxy injections	
E.	Care and Use of Tools & Equipment: Safety	500 hours
	1. Trowels, hammers, plumb rule	
	2. Scaffolds	
	3. Cutting saws, stationary and mobile	
	4. Welding equipment	
	5. Material Safety Data Sheets	
F.	Green Building practices	200 hours
	1. Recycle materials	
	2. Conservation of materials and water	
	3. Containment of dust	
G.	Miscellaneous duties as assigned	<u>200 hours</u>
	Total	4,200 hours

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The above minimum training criteria for Marble Mason/Setter, O*NET 47-2022.00 is hereby adopted and submitted for approval to the Chief of the Division of Apprenticeship Standards on October 15, 2010.

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