

# **Industry Training Criteria**

**Bricklayer – O\*NET 47-2021.00**

**A Masonry Trades Advisory Committee Report**

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

# Industry Training Criteria

## Bricklayer

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

- Minimum of three years and six months
- Minimum of 4,200 work hours

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

Bricklayer 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 bricklayers shall be in accordance with California Code of Regulations, Title 8 Section 212.01.

## **Attachment A**

### Related and Supplemental Instruction

Bricklayer                    O\*NET 47-2021.00

Blueprint reading

Building Codes

Construction Sequence

Green Construction, materials, methods and techniques

Hand tools and equipment, maintenance, proper use and safety

History of Masonry

Illegal discrimination and sexual harassment

Laying corner leads (brick, block and stone)

Laying to the line (brick, block and stone)

Masonry Fundamentals

Materials, identification, characteristics, and estimating

Mixing mortar

OSHA-10

Pattern bonds

Paving

Read a rule

Rebar identification and installation

Safety, CPR and First Aid

Scaffold Safety Training

Trade math

## **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:

Bricklayer		O*NET 47-2021.00
A.	Laying of Masonry units	2,000 hours
	1. Bricks	
	2. Concrete Masonry Units	
B.	Laying of Stone	400 hours
C.	Pointing, Cleaning, Caulking: Restoration	150 hours
D.	Installation of Building Units	650 hours
	1. Cutting, setting, and pointing of special masonry units.	
	2. Mixing mortar, cement, and patent mortar, bonds.	
	3. Building footings and foundations.	
	4. Plain exterior brickwork, straight walls, backing up brickwork.	
	5. Building arches, quoins, columns, and piers.	
	6. Building masonry panels.	
	7. Laying paving brick.	
E.	Care and Use of Tools & Equipment: Safety	500 hours
	1. Trowels, hammers, plumb rule/level	
	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>300 hours</u>
	Total	4,200 hours

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The above minimum training criteria for Bricklayer, O\*NET 47-2021.00 is hereby adopted and submitted for approval to the Chief of the Division of Apprenticeship Standards on October 15, 2010.

For the Advisory Committee:

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Chair	Date
Michael R. Height, Apprenticeship Coordinator BAC Local No. 3 Apprentice Training Trust	

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Co-Chair	Date
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