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
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.
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  
300 hours

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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