

**O.1**  
**WORK PROCESS SCHEDULE**  
**BRICKLAYER**  
**O\*NET-SOC CODE: 47-2021.00 RAPIDS CODE: 0052**  
**ALTERNATE TITLE: MASONRY**

This trade schedule is attached to and a part of the Apprenticeship Standards for the above identified occupation. This sequence of Related Classroom Instruction is competency-based and will be offered as traditional classroom training or independent study, which may include electronic media.

**1. TERM OF APPRENTICESHIP**

The term of the occupation shall be two and one half years (21/2) with an OJL attainment of 5000 hours supplemented by the required hours of related technical instruction.

**2. RATIO OF APPRENTICES TO JOURNEYPERSONS**

One (1) Apprentice to five (5) Journeypersons: one apprentice for the first skilled journeyperson employed, and one additional apprentice for each additional five (5) skilled journeypersons employed thereafter. A fraction-there-of will be adhered to.

**3. APPRENTICE WAGE SCHEDULE**

Apprentices shall be paid a progressively increasing schedule of wages based on a percentage of the current journeyperson wage rate.

**Term: 5000 Hours**

- 1<sup>st</sup> 1000 hours = 50 % of journeyperson's rate
- 2<sup>nd</sup> 1000 hours = 60 % of journeyperson's rate
- 3<sup>rd</sup> 1000 hours = 70 % of journeyperson's rate
- 4<sup>th</sup> 1000 hours = 80 % of journeyperson's rate
- 5<sup>th</sup> 1000 hours = 90 % of journeyperson's rate

**4. SCHEDULE OF WORK EXPERIENCE (See attached Work Process Schedule)**

Apprenticeship Oversight Committee may add to the work processes prior to submitting these Standards to the Division of Apprentice Training for approval.

**5. SCHEDULE OF RELATED TECHNICAL INSTRUCTION (See attached Related Classroom Instruction Outline)**

Instruction can incorporate elements of both electronic media and traditional classroom including online training, distance learning, or independent study of established curriculum.

Curricula modules are based on industry standardized applications of current construction practices. Modules are knowledge and skill based including a system for assessment. The

assessment will include task objectives, procedures, review materials, and competency-based performance tests.

**O.1 - WORK PROCESS SCHEDULE** **HOURS**

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This instruction and experience shall include the following operations, but not necessarily in the listed sequence. Time spent on specific operations need not be continuous.

1. Proper care and use of all tools of the trade and safety	250
2. Learning various types and consistencies of mortar according to job specifications and nature of the material to be used	200
3. Using trowel in handling and spreading of mortar and proper consistency of mortar	375
4. Proper preparation of foundation walls and bases for starting brick work	50
5. The selecting, cutting, shaping, and placing of brick tile, cement, and cinder block and fire brick in proper position	1000
6. Laying brick and tile to wood, metal, or other types of fixtures and frames	500
7. Laying brick to form arches and designs	750
8. Learning the various kinds and types of bonds	250
9. Setting and anchoring keystones	50
10. Building chimneys and fireplaces of brick and other types of masonry	1200
11. Building cupolas, furnaces linings, bakers' ovens, kilns, circular stairways, bay window, and other irregular structures	1100
12. Repairing, remodeling, and renovating brick work	225
13. Checking and inspecting finished work	50

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**TOTAL HOURS** **5000-6000**

**O.1 - BRICKLAYER RELATED CLASSROOM INSTRUCTION**

*Note:* Due to regional and local code differences and climate conditions, duration of instructional competencies/modules is suggested estimates only.

\*DAT apprenticeship program standards recommend 150 hours of related technical instruction per year.

<b>Modules</b>	<b>Hours</b>
Basic Safety	20
Introduction to Construction Math	15
Introduction to Hand Tools	15
Introduction to Power Tools	10
Introduction to Blueprints	5
Basic Rigging	7.5
Introduction to Masonry	5
Mortar	10

Masonry Units and Installation Techniques	75
Residential Masonry	25
Grout and Other Reinforcement	15
Metal Work in Masonry	15
Advanced Laying Techniques	50
Construction Techniques and Moisture Control	20
Elevated Work	15
Construction Inspection and Quality Control	15
Masonry in High-Rise Construction	17.5
Specialized Materials and Techniques	60
Repair and Restoration	17.5
Commercial Drawings	25
Estimating	25
Project Planning	25
<b>TOTAL HOURS</b>	<b>487.50</b>

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