

# Bricklayer (*MASON*) Level One Shop Project Practical Test

Time to complete: **3 hours**

**Materials:**

- 9 20cm concrete blocks (190x190x390mm)
- 2 20cm half concrete blocks (190x190x190mm)
- 5 concrete slabs (190x50x390mm)
- 57 metric modular bricks (90x57x190mm)
- 6 half metric modular bricks (90x57x95mm)
- 5 20l pails of pre-mixed lime mortar (proportions: 3 parts fine, washed, masonry sand to 1 part type S hydrated lime)
- 2 line blocks
- Braided mason's line
- 2 storey poles
- shims for plumbing storey poles

**Storey Poles:**

- Plywood over wood stud construction
- 900mm height, 600mm leg
- Face against masonry should be 190x900(min)mm
- Poles should be free of any markings

**Equipment:**

- mortar board
- mortar stand
- adequate lighting

**Tools:**

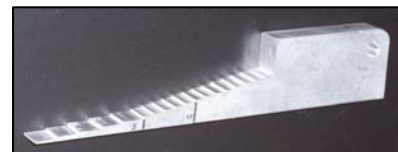
- Brick Trowel, 4' Level (1.2m), Measuring Tape and/or Gauge Tape, Line and line blocks, Jointer, Brush, Pencil

**Personal Equipment:**

- Safety shoes

**Marking Tools:**

- Marking gauge graduated in millimeters (1mm to at least 15mm in 1mm increments)



**Marking:**

- Station set-up is not timed – all materials and equipment are readied prior to the timed test including the setting and plumbing of the Storey Poles.
- Storey Poles are set and plumbed **by the student** before the clock starts.
- Clock starts as soon as the student starts by either laying mortar in the project area or marking coursing elevations on the storey poles.
- No time extensions will be allowed.
- At completion of test, determine **with the student** which end (left or right) of the project will be the “benchmark” where project height will be measured. Determine the “benchmark” before taking any official measurements. Indicate the “benchmark” on the score sheet.
- Using the student’s tools (level, square and tape) and the measuring gauge, take one reading for each measurement at its worst possible location. Record actual measurement. Report the number of millimeters out of specification (beyond acceptable range) on the score sheet. One point is deducted per millimeter out of specification up to the maximum deduction.
- To evaluate consistency of mortar joints, the maximum and minimum thicknesses for both head and bed joints are measured and the differences recorded.
- No score can be given for an incomplete project.
- The student needs 70 marks or more to pass.

**Project Notes:**

- Block gauge – 1 course of block in 200mm
- Brick gauge – 3 courses of brick in 200mm
- All joints to the front of the project are to be concave tooled (tooled, brushed and re-tooled)
- Cleanliness is not scored but strongly recommended. Minimize mortar droppings!

