

Bricklayer (*Mason*) Level Two Shop Project Practical Test

Time to complete: **3 hours**

Materials:

- 8 20cm double-ender concrete blocks (190x190x390mm)
- 4 concrete slabs (190x50x390mm)
- 60 metric modular bricks (90x57x190mm)
- 5 20l pails of pre-mixed lime mortar (proportions: 3 parts fine, washed, masonry sand to 1 part type S hydrated lime)

Equipment:

- mortar board
- mortar stand
- adequate lighting

Tools:

- Brick Trowel, 4' Level (1.2m), 24"x16" Square (600x400mm), Measuring Tape and/or Gauge Tape, Jointer, Brush, Pencil

Personal Equipment:

- Safety shoes

Marking Tools:

- Marking gauge graduated in millimeters (1mm to at least 15mm in 1mm increments)
- Gauge pole or tape graduated every 66.6mm



Marking:

- Station set-up is not timed – all materials and equipment are readied prior to the timed test.
- Clock starts as soon as the student begins to lay-out the project.
- No time extensions will be allowed.
- At completion of test, determine **with the student** which corner 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.
- Subtract the total deductions from 100 to determine the score.
- The student needs a score of 70 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 outside of the project are to be concave tooled (tooled, brushed and re-tooled)
- Cleanliness is not scored but strongly recommended. Minimize mortar droppings!

