Bricklayer

Level 1

PRACTICAL ASSESSMENT INFORMATION PACKAGE

Bricklayer Level 1
Practical Assessment
Information Package

This is an information package regarding the British Columbia Bricklayer Practical Assessment. This assessment is designed to test the scope of the practical knowledge and skills of the trade.

This standard practical exam was developed and validated by a technical subcommittee of the Masonry Industry Training Association, an Industry Society composed of eight directors appointed by Industry, the Canadian Masonry Contractors' Association (4 directors) whom represent open shop contractors and employees, The Masonry Contractors Association of BC (2 Directors), whom represent Union Masonry Contractors, and the International Union of Bricklayers and Allied Craftworkers Local #2 BC (2 Directors), whom represent union masonry craftworkers.

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Section 1 – Bricklayer Practical Assessment Information

The following pages contain basic information about the practical assessment tasks for the Bricklayer program.

Carefully review the assessment information. You will have 3 hours to complete this practical assessment.

Once you have registered for a practical assessment venue, you will be given details and other applicable information will be provided by the assessment agency to help you prepare ahead of the exam.

Please contact Trowel Trades Training Association for any questions or to book a Bricklayer Practical Assessment.

Trowel Trades Training Association contact:

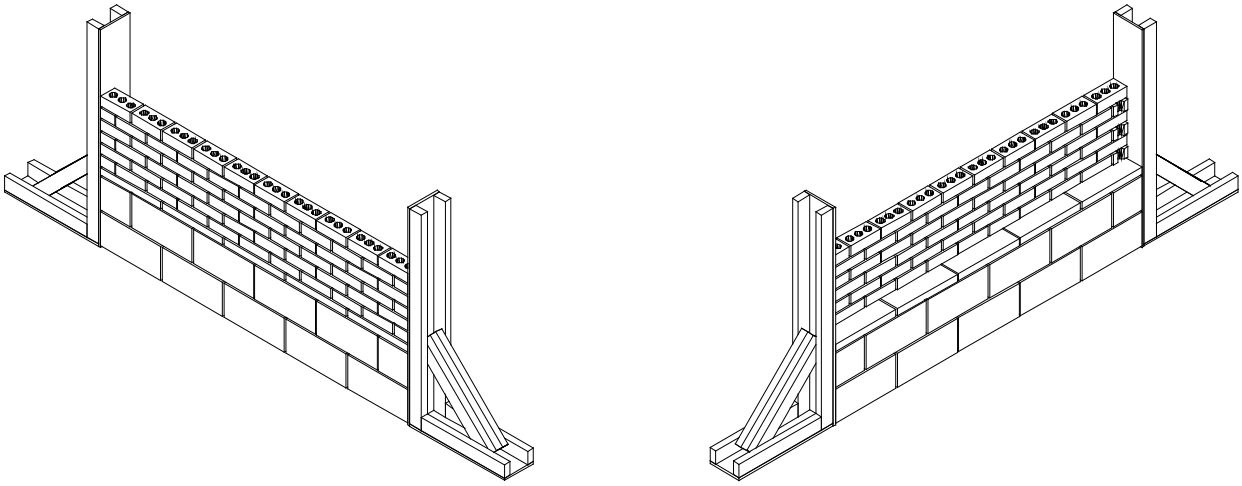
604-580-2463

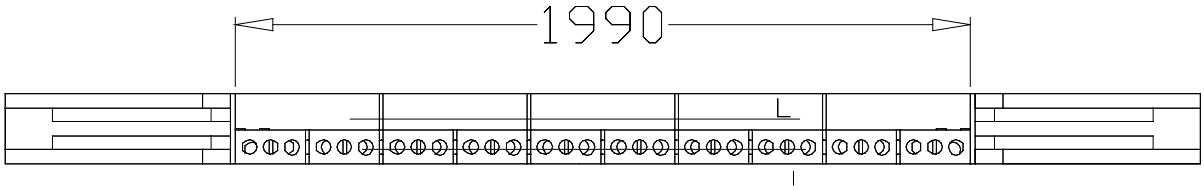
1-844-480-2463 (Toll free)

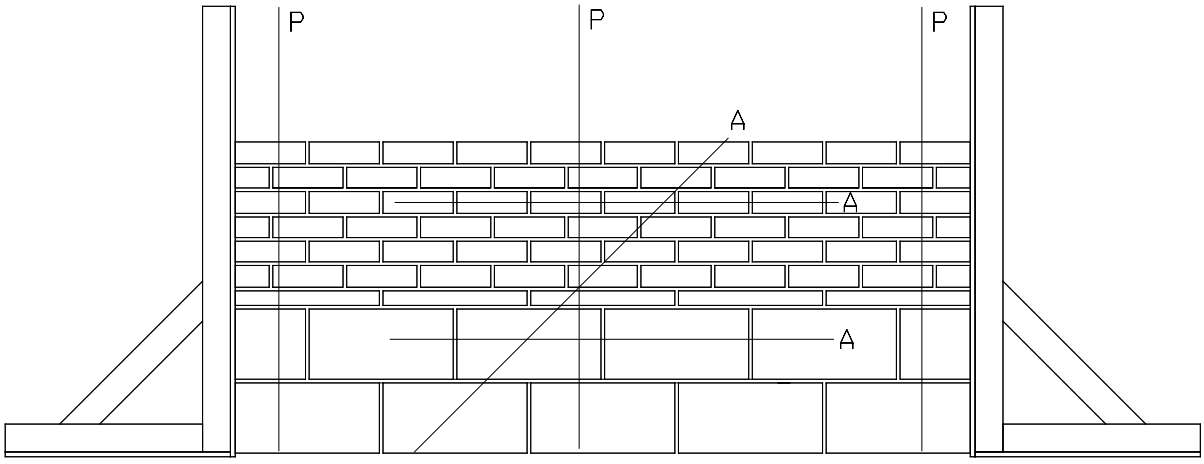
Section 2 – Bricklayer Practical Assessment Project

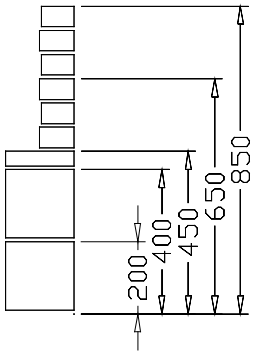
Project Notes:

- 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!









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 millimetres out of specification (beyond acceptable range) on the score sheet. One point is deducted per millimetre 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.

Section 3 – Materials and Equipment

Materials

9 20cm concrete blocks (190×190×390mm)

2 20cm half concrete blocks (190×190×190mm)

5 concrete slabs (190×50×390mm)

57 metric modular bricks (90×57×190mm)

6 half metric modular bricks (90×57×95mm)

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 190×900(min)mm

Poles should be free of any markings

Equipment

Mortar board

Adequate lighting

Mortar stand

Tools

Brick Trowel

4' Level (1.2m)

Measuring Tape

Gauge Tape

Line and line blocks

Jointer

Brush

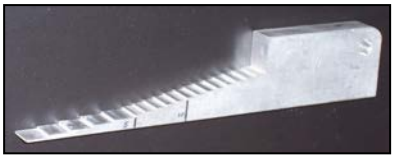
Pencil

Personal equipment

Safety shoes

Marking tool

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



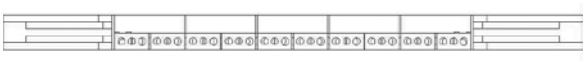
Section 4 – Level 1 Project - Score Sheet

Date: _____

Student: _____

Assessor: _____

Benchmark:
(mark on drawing - either right or left corner)



Time to complete: _____
(maximum 3 hours)

All measurements are in mm.

		Actual measurement	Deviation	Tolerance	mm beyond tolerance	Maximum deduction	Deduction (1 pt per mm beyond tolerance up to max)
Dimensions & Gauge	Length (at first block course) - **1990mm**			1		10	
	Overall height (at benchmark) - **850mm**			1		10	
	Top of 3rd brick course (at benchmark) - **650mm**			1		10	
	Top of slab height (at benchmark) - **450mm**			1		5	
Jointing	Block Head full & concave tooled - Yes / No					1	
	Block Bed full & concave tooled - Yes / No					1	
	Brick Head full & concave tooled - Yes / No					1	
	Brick Bed full & concave tooled - Yes / No					2	
	Bed joints: Max-Min (brick & block but not including base joint)	Min: Max:		6		5	
	Head joints: Max-Min (brick only)	Min: Max:		6		5	
Level (mm off level)	Top of slab			1		10	
	Top of brick			1		10	
Plumb & vertical alignment (mm off plumb at corners)	Front middle			1		5	
	Front left			1		5	
	Front right			1		5	
Alignment (mm out of alignment)	Diagonal front			1		5	
	Brick 4th course			1		5	
	Block 2nd course			1		5	
						Max points 100	Total deductions

Signatures:

Assessor: _____

Score: _____

Score = 100 - Deductions
70 minimum to pass