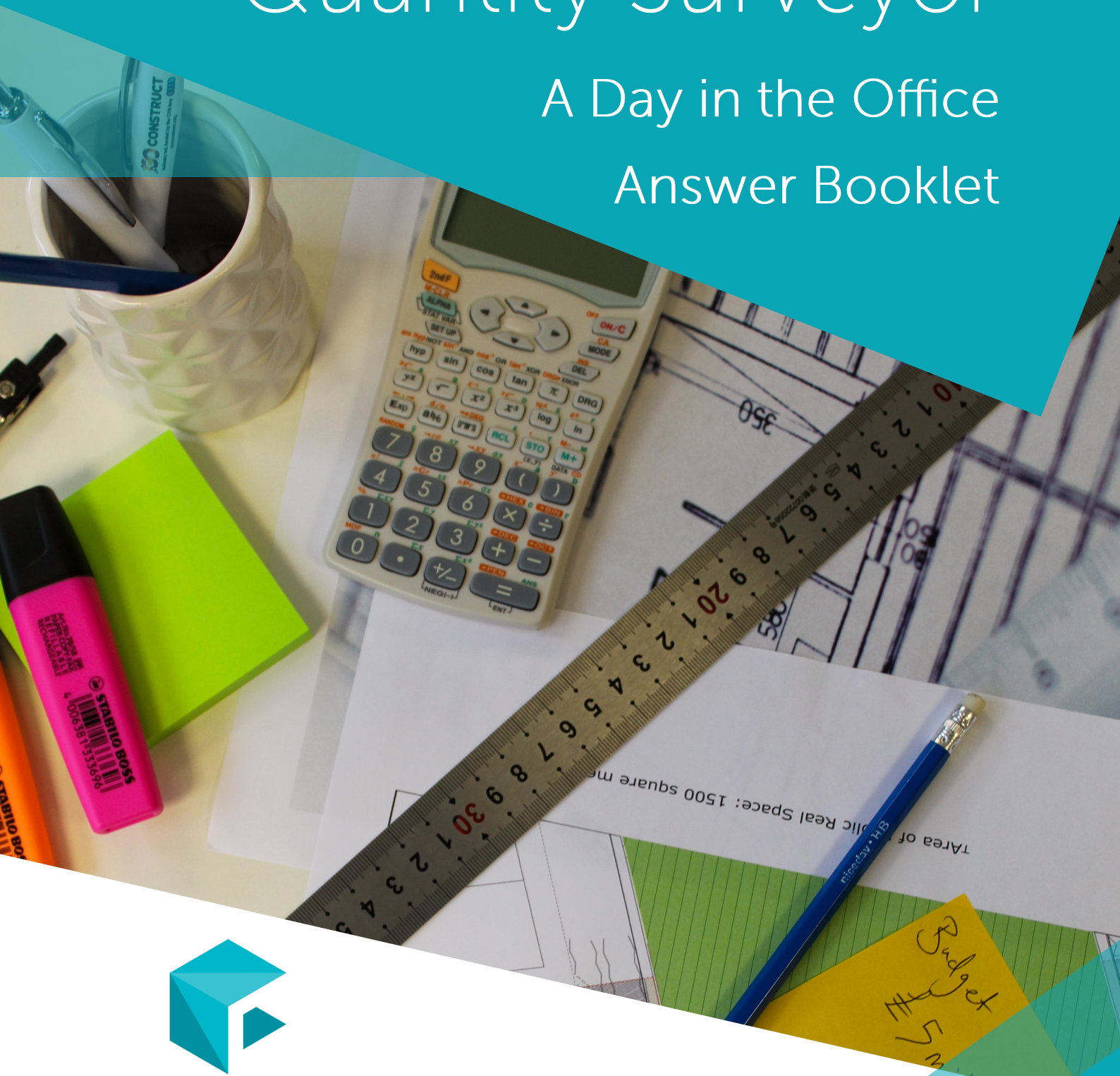
Quantity Surveyor

A Day in the Office

Answer Booklet



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GO CONSTRUCT

Industry led, funded by the CITB levy citb

Costs and Calculations Rooms 1-3

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You need to measure rooms 1-3 and work out how much paint is required for the surface areas of the walls .

Be careful to exclude doors and windows.

Rooms	Surface Area of Windows and Doors	Measure the Surface Areas of the Walls– Width x Height = Surface Area of Wall (Each room has 4 walls)	Total Surface Area to Paint Exclude Doors and Windows	Type and colour of paint	Cost of paint
Science Lab Room 1	Doors: $2m^2$ Windows: $1m^2$	5.7 x 2.5 x 2 walls = $28.5m^2$ 11.5 x 2.5 x 2 walls = $57.5m^2$ $28.5m^2 + 57.5m^2 = 83.3m^2$	$83.3-2m^2-1m^2 = 80.3m^2$	Magnolia Silk	£10=50 m^2 To cover $80m^2$ £10 x 2 tins= £20
Science Classroom Room 2	Doors: $2m^2$ Windows: $1m^2$	4.7 x 2.5 x 2 = $23.5m^2$ 11.5 x 2.5 x 2= $57.5m^2$ $57.5m^2 + 23.5m^2 = 81m^2$	$81m^2 - 2m^2 - 1m^2$ $= 78m^2$	Mustard Matte Emulsion	£27 =$20m^2$ £27 x 4= £108 will cover $80m^2$
Science Classroom Room 3	Doors: $2m^2$ Windows: $1m^2$	5.7 x 2.5 x 2 = $28.5m^2$ 11.5 x 2.5 x 2 = $57.5m^2$ $28.5m^2 + 57.5m^2 = 86m^2$	$86m^2 - 2m^2 - 1m^2$ $= 83m^2$	Mustard Matte Emulsion	£27=20 m^2 Need 5 tins to cover $83m^2$ £27 x 5 = £135

Costs and Calculations Rooms 4-6

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Rooms	Surface Area of Windows and Doors	Measure the Surface Areas of the Walls Width x Height = Surface Area of Wall (Each room has 4 walls)	Total Surface Area to Paint Exclude Doors and Windows	Type and colour of paint	Cost of paint
Science Lab Room 4	Doors: $2m^2$ Windows: $1m^2$	6.7 x 2.5 x 2 walls = $33.5m^2$ 11.5 x 2.5 x 2 walls = $57.2m^2$ 57.5+ $33.5m^2$ = $91m^2$	$91m^2$ - $2m^2$ – $1m^2$= $88m^2$	Magnolia Silk	£10 = $50m^2$ £10 x 2 = £20 will cover $100m^2$
Computer Room Room 5	Doors: $2m^2$ x 2 = $4m^2$ Windows: $2m^2$	14.4 x 2.5 x 2 walls = $72m^2$ 9.5 x 2.5 x 2 walls = $47.5m^2$ $72m^2$ + $47.5m^2$ = 119.5	119.5-$4m^2$ - $2m^2$ = $113.5m^2$	Maroon	£11.50 = $25m^2$ $25m^2$ x 5 = $125m^2$ £11.50 x 5 tins = £57.50
Indoor Football Court Room 6	Doors: $2m^2$ x 2 = $4m^2$	14.3 x 2.5 x 2 walls = $71.5m^2$ 9.5 x 2.5 x 2 walls = $47.5m^2$ $71.5m^2$ + $47.5m^2$ = $119m^2$	$119m^2$ –$4m^2$ = $115m^2$	Magnolia Silk	$115m^2$ £10 =$50m^2$ $50m^2$ x 3 = $150m^2$ £10 x 3 tins = £30

Costs and Calculations Rooms 7

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Rooms	Surface Area of Windows and Doors	Measure the Surface Areas of the Walls Width x Height = Surface Area of Wall (Each room has 4 walls)	Total Surface Area to Paint Exclude Doors and Windows	Type and colour of paint	Cost of paint
Science Office Room 7	Doors: $2m^2$ Windows: $1m^2$	2.9 x 2.5 x 2 = $14.5m^2$ 9.5 x 2.5 x 2 = $47.5m^2$ $14.5m^2$ + $47.5m^2$ = $62m^2$	$62m^2 - 2m^2 - 1m^2 = 59m^2$	Lavender	£17.50 = $20m^2$ To cover $59m^2$, we need 3 tins £17.50 x 3 = £52.50

Final Cost of Paint

You need to input all costs of paints after you have worked out the discounts in to this table.

Rooms	Cost of paint
Science Labs: Rooms 1 and 4	£20+ £20 = £40
Science Classrooms: Rooms 2 and 3	£108 + £135= £243
Computer Room: Room 5	£57.50
Indoor Football Court: Room 6	£30
Science Office: Room 7	£52.50
	Total: £413