# 6619 Awards, Certificates and Diplomas in Construction Skills at SCQF Level 3 and 4



Candidate task manual – Bricklaying, Carpentry and Joinery

www.cityandguilds.com August 2018 Version 2.7

#### **About City & Guilds**

City & Guilds is the UK's leading provider of vocational qualifications, offering over 500 awards across a wide range of industries, and progressing from entry level to the highest levels of professional achievement. With over 8500 centres in 100 countries, City & Guilds is recognised by employers worldwide for providing qualifications that offer proof of the skills they need to get the job done.

#### **City & Guilds Group**

The City & Guilds Group includes City & Guilds, ILM (the Institute of Leadership & Management, which provides management qualifications, learning materials and membership services), City & Guilds HAB (the Hospitality Awarding Body), and City & Guilds Centre for Skills Development. City & Guilds also manages the Engineering Council Examinations on behalf of the Engineering Council.

#### **Equal opportunities**

City & Guilds fully supports the principle of equal opportunities and we are committed to satisfying this principle in all our activities and published material. A copy of our equal opportunities policy statement is available on our website.

#### Copyright

The content of this document is, unless otherwise indicated, © The City and Guilds of London Institute and may not be copied, reproduced or distributed without prior written consent.

However, approved City & Guilds centres and candidates studying for City & Guilds qualifications may photocopy this document free of charge and/or include a PDF version of it on centre intranets on the following conditions:

- centre staff may copy the material only for the purpose of teaching candidates working towards a City & Guilds qualification, or for internal administration purposes
- candidates may copy the material only for their own use when working towards a City & Guilds qualification

The Standard Copying Conditions (which can be found on our website) also apply.

Please note: National Occupational Standards are not © The City and Guilds of London Institute. Please check the conditions upon which they may be copied with the relevant Sector Skills Council.

#### Publications

City & Guilds publications are available from our website or from our Publications Sales department, using the contact details shown below.

Every effort has been made to ensure that the information contained in this publication is true and correct at the time of going to press. However, City & Guilds' products and services are subject to continuous development and improvement and the right is reserved to change products and services from time to time. City & Guilds cannot accept liability for loss or damage arising from the use of information in this publication.

City & Guilds 1 Giltspur Street London EC1A 9DD T +44 (0)844 543 0000

www.cityandguilds.com

F +44 (0)20 7294 2413

candidate support @city and guilds.com

# 6619 Awards, Certificates and Diplomas in Construction Skills at SCQF Level 3 and 4



www.city and guilds.com

Candidate task manual – Bricklaying, Carpentry and joinery

Version and date	Change detail	Section
V2.2 October 2014	Measurement on Fig.2 changed to from 2750 to 2690 to bring in line with instruction on p.50 (discrepancy addressed).	Practical tasks (Assignment 118)
V2.3 October 2014	Knowledge tasks removed to insert in separate 'End of unit knowledge questions' document.	Knowledge tasks
	Removal of references to permission for candidates to have marking criteria with them during practical tasks.	Practical tasks
V2.4 November 2014	Formatting made consistent and minor amendments to improve clarity.	Practical tasks
V2.5 February 2015	P17 in marking criteria 'level cross joints' amended to 'level'	Practical Task (Assignment 118)
V2.6 March 2015	Amended images for assignment 001 and 002	Practical Task (P32 & 35)
V2.7 August 2018	Amendments made to the images for assignment 109 Task A, Figure 1 the arrows were set to the outside of the vertical lines and Figure 2 the floating arrow was removed. The timber dimension sizes amended to standard timber sizes 45 mm x 30 mm.	<ul> <li>Practical Task ( p. 60 and p. 61)</li> <li>Practical Task 001 - Task A (p. 31)</li> <li>Practical Task 105 - Task A (p. 45)</li> <li>Practical Task 107 - Task A (p. 51)</li> <li>Practical Task 103 -</li> </ul>
	The head and stile dimensions amended from 33 mm x 12 mm to 32 mm x 12mm	Task A (p. 37)

#### Contents

# City&

1 Uni	it assessment overview	5
Task completion re	ecord	5
2 Pra	2 Practical tasks	
Assignment 005	Constructing half brick walling	11
Assignment 118	Constructing block walling	15
Assignment 119	Constructing half brick return corners	19
Assignment 120	Constructing cavity walls in brickwork	23
Assignment 121	Constructing one brick walling	27
Assignment 001	Constructing halving joints	31
Assignment 002	Constructing housing joints	34
Assignment 103	Constructing through mortice and tenon joints	37
Assignment 104	Constructing angled halving joints	40
Assignment 105	Constructing bridle joints	44
Assignment 106	Constructing haunched mortice	48
Assignment 107	Constructing stub mortice and tenon joints	51
Assignment 108	Fixing architraves and skirtings	55
Assignment 109	Constructing and fixing hatch linings	59
Assignment 110	Fitting locks and latches	65
4 Ap	pendices	69
Appendix 1 – Unit feedback and forward planning form		



This *Candidate Task Manual* is a record of your achievement in practical assessments. You must keep it in good condition and it must be stored in a safe place by your Assessor. Please fill in all of your details before you carry out any assessments.

#### **Candidate Details**

Surname		Forename(s)	
City & Guilds enrolment number			

#### **Centre Details**

Name		Centre No	

I understand the requirements of the qualification and that all the work towards the assessments must be my own.

<b>didate signature</b> ease print)
--

sor name e print)	Signed	
----------------------	--------	--

Date	

Gu

#### Assignment 101 Introduction to health and safety in construction

Task		Grade for task
A1	Why health and safety is important	P/X
A2	The role of the Health and Safety Executive	P/X
A3	Health and safety regulations	P/X
A4	Responsibility for health and safety	P/X
A5	Common causes of accidents in the construction industry - hazards	P/X
A6	Common causes of accidents in the construction industry - risks	P/X
A7	Risk assessment	P/X
A8	Health and safety sign categories	P/X
A9	Identify safety signs	P/X
A10	Identify COSSH signs	P/X
A11	Types of personal protective equipment (PPE)	P/X
A12	Purpose of personal protective equipment	P/X

All tasks must be passed for the unit to be achieved. Grading should be taken from the assessor guidance document. The overall grade should be calculated using the Marking Criteria in the Assessor Guide and transferred here.

Assessor signature and date:

Overall	orade
Overall	graue

P/M/D/X

#### Assignment 102 Introduction to the construction industry

Task		Grade for task
A1	Types of construction	P/X
A2	Sustainable construction	P/X
A3	Identify design features	P/X
A4	Energy saving materials used in the construction industry	P/X
A5	Construction industry activities	P/X
A6	Job opportunities in the construction industry	P/X

All tasks must be passed for the unit to be achieved. Grading should be taken from the assessor guidance document. The overall grade should be calculated using the Marking Criteria in the Assessor Guide and transferred here.

Assessor signature and date:

**Overall grade** 

P/M/D/X

#### Assignment 005 Constructing half brick walling

Task		Grade for task
A Construct a ha	alf brick wall	P/X
All tasks must be passe	ed for the unit to be achieved.	
Assessor signature and	d date: This unit is achievab	ble as pass/fail only
		Overall grade
Assignment 118 Co	onstructing block walling	
	onstructing block walling	Grade for task
Task		Grade for task
TaskAConstruct a block		Grade for task

Overall grade

#### Assignment 119 Constructing half brick return corners

Task		Grade for task
A Construct a half brick return corner		P/M/D/X
All tasks must be passed for the unit to be achieved.		
Assessor signature and date:	The overall grade will be the same as the single graded task in this unit.	
	Overall grade	

#### Assignment 120 Constructing cavity walls in brickwork and block work

Task			Grade for task <sup>+</sup>	Points (graded tasks)
А	Construct a cavity wall		P/M/D/X	
В	Knowledge task		P/X	
All tas	ks must be passed for the unit to be achie	ved.		
Assess	sor signature and date:	The overall grade wil the single graded tas	l be the same as sk in this unit.	

Overall grade

#### Assignment 121 Constructing one brick walling

Task		Grade for task <sup>†</sup>	<b>Points</b> (graded tasks)
А	Construct a one brick wall	P/M/D/X	
В	Knowledge task	P/X	
All ta	sks must be passed for the unit to be achieved.		

Assessor signature and date:	The overall grade will be the same as the single graded task in this unit.	
	Overall grade	

#### Assignment 001 Constructing halving joints

Task		Grade for task	
A Construct a tee halving joint		P/X	
All tasks must be passed for the unit to be achieved.			
Assessor signature and date:	This unit is achievable as pass/fail only		
	Overall grade		

#### Assignment 002 Constructing housing joints

Task			Grade for task		
А	Construct a tongued housing joint		P/X		
All tas	All tasks must be passed for the unit to be achieved.				
Asses	sor signature and date:	This unit is achievable as pass/fail only			
		Overall grade			

#### Assignment 103 Constructing through mortice and tenon joints

Task		Grade for task
A Construct a frame using through mortie	ce and tenon joints	P/M/D/X
All tasks must be passed for the unit to be achieved.		
Assessor signature and date:	The overall grade will be the same as the single graded task in this unit.	
	Overall grade	

#### Assignment 104 Constructing angled halving joints

Task		Grade for task
A Construct a builder's square using halving joints		P/M/D/X
All tasks must be passed for the unit to be achie	All tasks must be passed for the unit to be achieved.	
Assessor signature and date:	The overall grade will be the same as the single graded task in this unit.	
	Overall grade	

#### Assignment 105 Constructing bridle joints

Task			Grade for task		
А	Construct a frame using bridle joints		P/M/D/X		
All task	All tasks must be passed for the unit to be achieved.				
Assess	or signature and date:	The overall grade will be the same as the single graded task in this unit.			
		Overall grade			

#### Assignment 106 Constructing haunched mortice and tenon joints

		Grade for task
Construct a frame using haunched m	ortice and tenon Joints	P/M/D/X
All tasks must be passed for the unit to be achieved.		
or signature and date:	The overall grade will be the same as the single graded task in this unit.	
	Overall grade	
	s must be passed for the unit to be ach	or signature and date: The overall grade will be the same as the single graded task in this unit.

#### Assignment 107 Constructing stub mortice and tenon joints

Task		Grade for task
A Construct a frame using stub mortice a	nd tenon joints	P/M/D/X
All tasks must be passed for the unit to be achieved.		
Assessor signature and date:	The overall grade will be the same as the single graded task in this unit.	
	Overall grade	

#### Assignment 108 Fixing architraves and skirtings

Task		Grade for task
A Fixing architraves and skirting		P/M/D/X
B Underpinning knowledge questions	B Underpinning knowledge questions	
All tasks must be passed for the unit to		
Assessor signature and date:	The overall grade will be the same as the single graded task in this unit.	
	Overall grade	

#### Assignment 109 Constructing and fixing hatch linings

Task		Grade for task
A Make and fix hatch lining		P/M/D/X
All tasks must be passed for the unit to be achie	ved.	
Assessor signature and date:	The overall grade will be the same as the single graded task in this unit.	
	Overall grade	

#### Assignment 110 Fitting locks and latches

Task		Grade for task
A Fit locks and latches		P/M/D/X
All tasks must be passed for the unit to be achie	eved.	
Assessor signature and date:	The overall grade will be the same as the single graded task in this unit.	
	Overall grade	

#### 2 Practical tasks



To complete this task you must build a half brick thick brick wall to the specification in the diagrams labelled Fig.1 and Fig 2.

You may have a copy of the diagrams during the practical assessment. Your assessor will support you with this.

You have **2 hours** to complete this task.

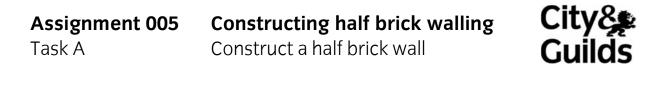
Your assessor will also ask you **one** question relating to constructing brick walling which must be answered correctly to pass this assignment.

This task can be achieved at pass only.

#### Candidate answer record

Answer

Achieved



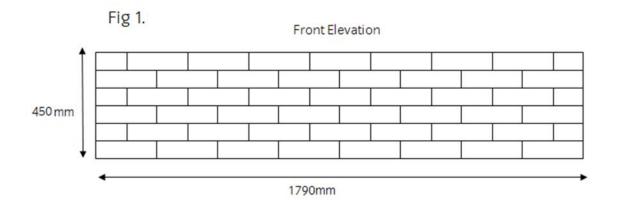
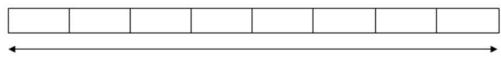


Fig 2.



1790mm

Plan of first course

Assignment 005

Marking criteria

City& Guilds

Task A
--------

Candidate name		
Assessor name		

Centre name

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below.

The candidate has:		Pass	Merit	Distinction
identified and used the personal protective equipment (PPE) appropriate to building a half brick thick wall				
identified selected and used the mat to build a half brick thick wall	erials required			
identified selected and used the tool required to build a half brick thick wa				
measured and set up profiles to a giv	ven specification			
dry bonded the brickwork				
calculated the correct number of brid	cks required			
set up a mortar board and stacked th	ne bricks			
demonstrated safe setup of the work	area			
built half brick thick wall to the s provided and within the following				
setting out	<b>+/</b> – 40mm in 1790mm			
level	+/– 40mm in 1790mm			
cross joints	10mm +/ – 8mm			
<ul> <li>range measured diagonally</li> </ul>	+/- 40mm			
maintained a clean and safe working followed health and safety guidelines				
cleared work area of surplus materia completion of the job	ls and debris on			
cleaned all tools and equipment read	ly for re-use			
correctly answered question (refer to Guide)	Assessor			

Assignment passed?	Yes/No		
Assessor signature		 	
Date			

# Assignment 118Constructing block wallingTask AConstruct a block wall



To complete this task you must build a100mm thick lightweight block wall to the specification in the diagrams labelled Fig.1 and Fig. 2. The wall should be 2690mm x 600mm.

This task may be achieved at pass, merit or distinction.

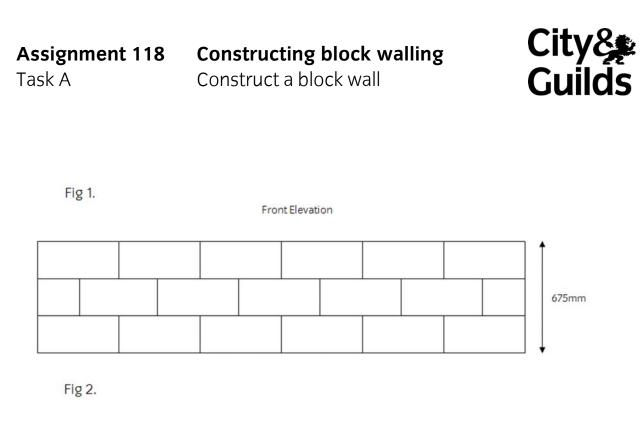
You have 2 hours to complete this task.

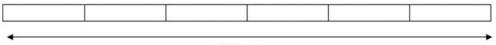
Your assessor will also ask you **one** question related to the construction of block walling which must be answered correctly to pass this assignment.

#### Candidate answer record

Answer

Achieved





2690mm

Plan of first course

#### Specification

100 mm thick block wall in half bond between two profiles

Assignment 118 Constructing block walling

Marking criteria



Tas	kΑ

Candidate name		
Assessor name	 	 

Centre name

To pass the assignment, the candidate is required to complete each task to the minimum standard indicated below. All criteria for each grade must be achieved to claim that grade.

The candidate has:	Pass	Merit	Distinction
identified and used appropriate Personal Protective Equipment (PPE)			
identified, selected and used the materials required			
identified, selected and used the correct tools and equipment			
measured and set up profiles to a given specification			
set up a mortar board and stacked the number of blocks required			
demonstrated safe setup of the work area			
built a 100 mm thick block wall within the following tolerances:			
Setting out	+/- 25mm in 2690mm	+/- 20mm in 2690mm	 + −15mm in 2690mm
Level	+/-30mm in 2690mm	+/-20mm in 2690mm	+/-10mm in 2690mm
Cross Joints	10mm +/- 8mm	10mm +/- 5mm	10mm +/- 3mm
Range measured diagonally	 +/-25mm	 +/−20mm	 +/−15mm
maintained a clean and safe working area following health and safety guidelines			
cleared work area of surplus materials and debris on completion of the job			
cleaned all tools an equipment ready for re-use			
correctly answered question (refer to Assessor Guide)			

Assessor signature

Date

# Assignment 119 Constructing half brick return corners Task A Construct a half brick return corner Guilds

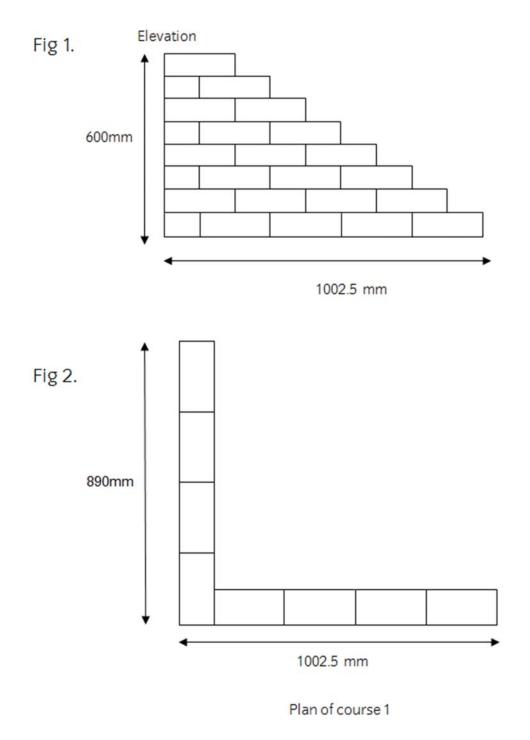
To complete this task, using the tools and materials provided, you must build a half brick thick return corner to the specifications in the diagrams labelled Fig.1 and Fig. 2.

You may have a copy of the diagrams during the practical assessment. Your assessor will support you with this.

You have 2 hours to complete this task.

This task can be achieved at pass, merit or distinction.

Assignment 119Constructing half brick return cornersCity &Task AConstruct a half brick return cornerGuilds



**Assignment 119** 

# Constructing half brick return corners



Marking criteria

Task A

Candidate name		
Assessor name		
Centre name		

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below. All criteria for each grade must be achieved to claim that grade.

The candidate has:	Pass	Merit	Distinction
identified and used appropriate personal protective equipment (PPE)			
identified, selected and used the materials required			
identified, selected and used the tools and equipment required			
measured and set up profiles to a given specification			
set up a mortar board and stacked the correct number of blocks required			
demonstrated safe setup of the work area			
built a half brick thick return corner within the tolerances below:			
Setting out	↓/ −25mm in length	│ +/ −20mm in length	│ +/ −15mm in length
Square measured at Course 1	↓/ −30mm in length	│ +/ −20mm in length	│ +/ −10mm in length
• Level	+/ –30mm in length	+/ –20mm in length	+/ –10mm in the length
Cross Joints	10mm +/ -8mm	10mm +/ – 5mm	10mm +/ – 3mm
Range measure diagonally on the tails	 +/ −25mm	 +/ −20mm	 +/ −15mm
Plumbing point 1	+/ –30mm in height	↓/ −20mm in height	+/ –10mm in height

The candidate has:	Pass	Merit	Distinction
Plumbing point 2	⊥ +/ −30mm in height	⊥ +/ −20mm in height	⊥ +/ −10mm in height
• Gauge	+/ –30mm in height	⊥ +/ −20mm in height	⊥ +/ – 10mm in height
maintained a clean and safe working area following health and safety guidelines			
cleared work area of surplus materials and debris on completion of the job			
cleaned all tools and equipment ready for re-use			

Assignment passed? Final grade: Pass/Merit/Distinction

Assessor signature

Date

#### Assignment 120

### Constructing cavity walls in brickwork **City** and block work



Task A

Construct a cavity wall

You must build a brick and lightweight block cavity wall between 2 profiles to the specifications in the diagrams labelled Fig.1 and Fig. 2.

This should include the provision of a damp proof course (DPC) and wall ties and you should finish the brickwork with a half round joint as the work proceeds

You may have a copy of the diagrams during the practical assessment. Your assessor will support you with this.

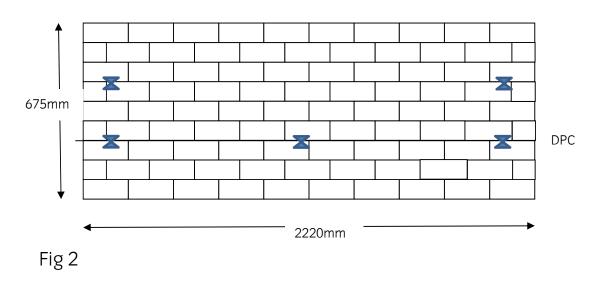
You have 3 hours to complete this task.

This task can be achieved at pass, merit or distinction.

Assignment 120	Constructing cavity walls in brickwork and block work	City& Guilds

Task A Construct a cavity wall

Fig 1





Plan view



Shows position of wall ties

Assignment 120

### Constructing cavity walls in brickwork City& and block work Guilds Task A

Marking criteria

Candidate name		
Assessor name	 	
Centre name		

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below. All criteria for each grade must be achieved to claim that grade.

The candidate has:	Pass	Merit	Distinction
identified the personal protective equipment (PPE) appropriate to building a cavity wall			
identified the materials required to build a cavity wall			
identified the tools and equipment required to build a cavity wall			
used personal protective equipment (PPE) appropriately			
selected the tools, equipment and materials required to build a cavity wall			
set up profiles and dry bond the brickwork and block work			
set up a mortar board and stacked the required number of bricks and blocks to complete the wall			
demonstrated safe setup of the work area			
built the cavity wall to the given specification within the following tolerances			
Setting out			
Brickwork between profiles			
	+/– 25mm in length	+/–20mm in length	+/–15mm in length
Block work between profiles	+/- 25mm in length	+/–20mm in length	+/–15mm in length
Cavity Width	75mm +/–20mm in width	75mm +/-10mm in width	75mm +/–5mm in width

The candidate has:	Pass	Merit	Distinction
built the cavity wall to the given specification within the following tolerances			
Level			
Brickwork	+/-30mm in length	+/–20mm in length	+/-10mm in length
Block work	+/-30mm in length	│ +/−20mm in length	+/-10mm in length
Cross Joints			
Brickwork	10mm +/-8mm	 10mm +/–5mm	10mm +/-3mm
Block work	 10mm +/-8mm	 10mm +/–5mm	 10mm +/–3mm
Range measured diagonally			
Brickwork	 +/−25mm	 +/-20mm	+/-15mm
Block work	 +/-25mm	 +/-20mm	+/ 15mm
• Gauge	+/-30mm in height	+/–20mm in height	+/-10mm in height
finished the brickwork to a given specification within the tolerances below			
<ul> <li>joint finish to brickwork</li> </ul>	Some gaps in jointing	No gaps in jointing	
maintained a clean and safe working area and has followed health and safety guidelines			
cleared work area of surplus materials and debris on completion of the job			
cleaned all tools and equipment ready for re-use			

Assignment passed? Final Grade: - Pass/Merit/Distinction

#### Assessor signature

Date

# Assignment 121Constructing one brick wallingTask AConstruct a one brick wall

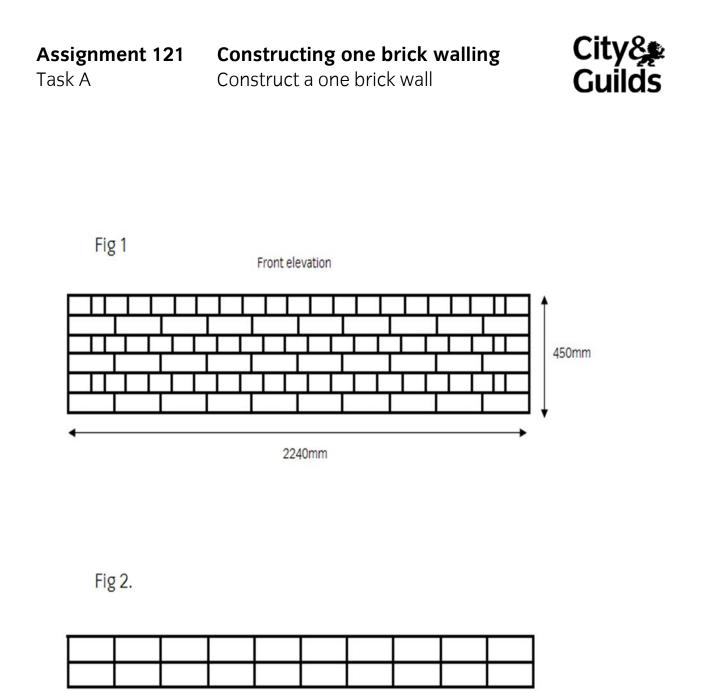


To complete this task you must build a one brick thick wall between two profiles to the specifications in the diagrams provided. The wall should have a bag rub finish.

You may have a copy of the diagrams during the practical assessment. Your assessor will support you with this.

You have 2 hours and 30 minutes to complete this task.

This task may be achieved at pass, merit or distinction.



2240mm

Plan of course 1

Where a candidate is completing the task individually the length of the wall should be reduced from 10 to 6 bricks long and the height reduced from 6 to 4 courses.

Constructing one brick walling Assignment 121 Task A

Candidate name		
Assessor name		

#### Centre name

To pass the assignment, the candidate is required to complete each task to the minimum standard indicated below. This task can be achieved at pass, merit or distinction and the tolerances below should be used to determine the grade achieved. All criteria for each grade must be achieved to claim that grade.

The candidate has:	Pass	Merit	Distinction
identified and used the appropriate personal protective equipment (PPE)			
identified the materials required			
identified the tools and equipment required			
selected the tools and equipment required			
measured and set up profiles to a given specification			
dry bonded the bricks to the following tolerance	 +/-30mm	 +/20mm	 +/-10mm
set up a mortar board and stacked the required number of bricks			
demonstrated safe setup of the work area			
built a one brick thick wall to the specifications provided and within the tolerances below			
Setting out	+/–25mm in length	+/–20mm in length	│ +/−10mm in length
Level	+/–30mm in length	+/-20mm in length	+/-10mm in length
Cross joints	10mm +/- 8mm	10mm +/- 5mm	10mm +/- 3mm
carried out a bag rub finish			
maintained a clean and safe working area and has followed health and safety guidelines			
cleared work area of surplus materials and debris on completion of the job			
cleaned all tools and equipment ready for re-use			

Assignment passed?	Final Grade: Pass/Merit/Distinction		
Assessor signature			
Date			

Assignment 001 Task A



To complete this task you must construct a tee halving joint as shown on the drawing (Figure 1), to a tolerance of +/-2 mm for both sawing and chiselling. You must also answer a question about halving joints correctly.

You may have a copy of the diagrams during the practical assessment. Your assessor will support you with this.

This task can be achieved at pass only.

#### Candidate answer record

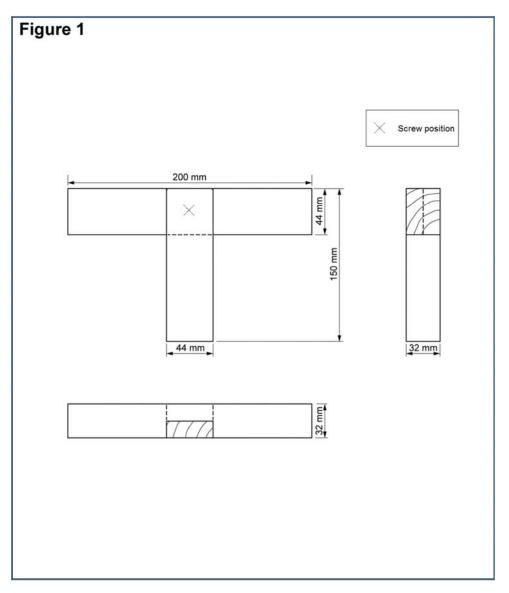
Answer

Achieved

Assignment 001 Task A **Constructing halving joints** Construct a tee halving joint



Dimensions shown are for guidance only



#### Specification

Timber should be planed European redwood.

Timber dimension 45 mm x 30 mm

Tee halving to be constructed in the centre of the horizontal member.

Tolerances of +/-2mm for both sawing and chiselling

The joint should be glued and screwed.

Assignment 001 Constructing halving joints

Task A

Marking Criteria

City& Guilds

Candidate name		
Assessor name		

Centre name

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below.

The candidate has:	Pass	Merit	Distinction
identified and used personal protective equipment (PPE) appropriate to constructing halving joints			
identified and selected materials required to construct halving joints			
successfully marked out and constructed halving joints to a given specification			
identified and selected tools and equipment required to construct halving joints			
demonstrated safe setup of the work area.			
maintained a clean and safe working area following health and safety guidelines			
cleared the work area of surplus materials and debris on completion of the job			
cleaned all tools and equipment ready for re-use			
correctly answered question (refer to Assessor Guide)			

Assignment passed? Yes / No

Assessor signature

Date

**Constructing housing joints** Construct a tongued housing joint



#### **Candidate Guidance**

To complete this task you must construct a tongued housing joint as shown on the drawing (Figure 1) to a tolerance of +/-2 mm for both sawing and chiselling. You must also answer a question about housing joints correctly.

You may have a copy of the diagrams during the practical assessment. Your assessor will support you with this.

This task can be achieved at pass only.

#### **Candidate answer record**

Answer

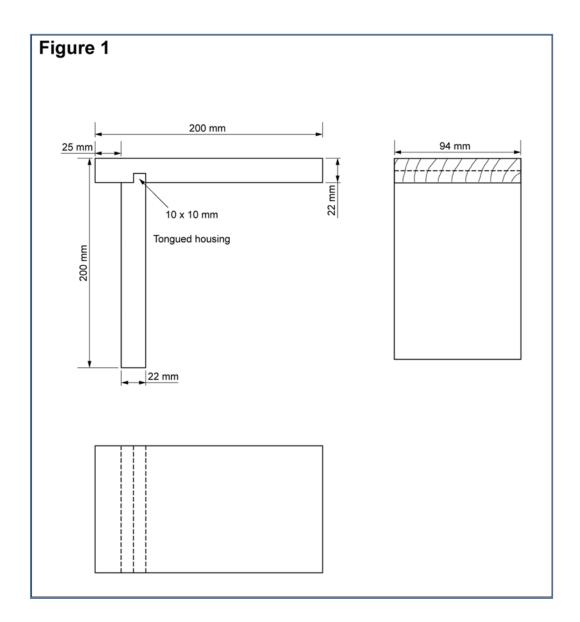
Achieved

Task A

# Constructing housing joints

Construct a tongued housing joint





### Specification

Timber should be planed European redwood finished size 94mm X 22mm

Tongued housing is to be constructed 25 mm in from the end of the horizontal member.

Tolerances of +/- 2mm for both sawing and chiselling

The joint should glued and screwed or nailed.

Task A

Constructing housing joints

Construct a tongued housing joint



Candidate name		
Assessor name	 	

Centre name

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below.

The candidate has:	Pass	Merit	Distinction
identified and used personal protective equipment (PPE) appropriate to constructing halving joints			
identified and selected materials required to construct housing joints			
successfully marked out and constructed housing joints to a given specification			
identified and selected tools and equipment required to construct housing joints			
demonstrated safe setup of the work area			
maintained a clean and safe working area following health and safety guidelines			
cleared the work area of surplus materials and debris on completion of the job			
cleaned all tools and equipment ready for re-use			
correctly answered question (refer to Assessor Guide)			

Assignment passed? Yes / No

Assessor signature

Date

# Assignment 103 Constructing through mortice and tenon joints



Task A

Construct a frame using through mortice and tenon joints

### **Candidate Guidance**

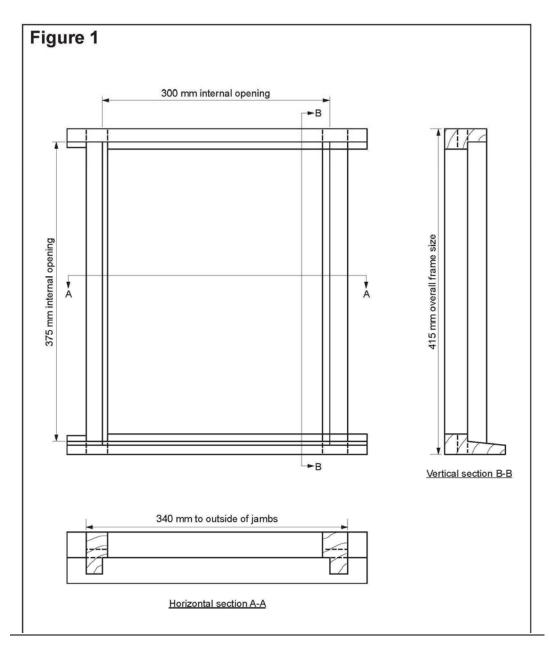
To complete this task you must construct and finish a frame using through mortice and tenon joints as shown on the drawing (Figure 1). You should have seen the marking criteria before you start the task but you should not have a copy with you during the assessment.

This task can be achieved at pass, merit and distinction.

# Assignment 103 Constructing through mortice and tenon joints



Task A Construct a frame using through mortice and tenon joints



# Specification

Timber to be planed European redwood; head and jambs to be finished size 69 mm X 32mm, cill 90 mm X 32 mm. Head and stiles to be once rebated 32 mm X 12 mm, cill to be rebated and have a 5mm chamfer. Timber to be rebated by the centre, candidate to form the chamfer to the cill.

All joints should be glued and wedged.

# Constructing through mortice and tenon joints



Marking Criteria

Candidate name		
Assessor name		

Task A

Centre name

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below. All criteria for each grade must be achieved to claim that grade.

The candidate has:	Pass	Merit	Distinction
identified and used personal protective equipment (PPE) appropriate to constructing through mortice and tenon joints			
identified and selected materials required to construct a frame using through mortice and tenon joints			
successfully marked out, constructed and finished a frame using through mortice and tenon joints to the given specification			
Width of frame	 +/- 5mm	 +/- 3mm	 +/- 1mm
Height of frame	+/- 5mm	+/- 3mm	+/- 1mm
Twist to frame	+/- 5mm	+/- 3mm	+/- 1mm
From square	+/- 3mm	+/- 2mm	+/- 1mm
• Joints	+/- 3mm to all joints	+/- 2mm to 2 joints	+/- 1mm to 3 joints
identified and selected tools and equipment required to construct a frame using through mortice and tenon joints			
demonstrated safe setup of the work area.			
maintained a clean and safe working area following health and safety guidelines			
cleared the work area of surplus materials and debris on completion of the job			
cleaned all tools and equipment ready for re-use			

Assignment passed?

Final Grade Pass/Merit /Distinction

Assessor signature

Date

# **Constructing angled halving joints**

Task A

Construct a Builder's Square using halving joints



#### **Candidate Guidance**

To complete this task you must construct a Builder's Square using halving joints as shown on the drawing (Figure 1). You must also answer a question about halving joints correctly.

You may have a copy of the diagrams during the practical assessment. Your assessor will support you with this.

This task can be achieved at pass, merit and distinction.

#### Candidate answer record

Answer

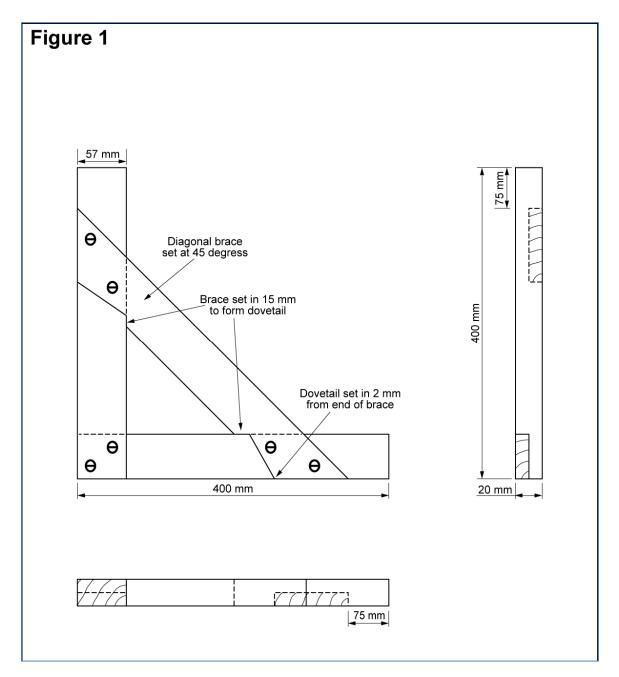
Achieved

# **Constructing angled halving joints**

Task A

Construct a Builder's Square using halving joints





## Specification

Timber to be planed European redwood finished size 57mm X 20mm

All joints are to be glued and screwed together.

Assignment 104 **Constructing angled halving joints** Task A

Marking Criteria

Candidate name			
Assessor name			

Centre name

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below. All criteria for each grade must be achieved to claim that grade.

The candidate has:	Pass	Merit	Distinction
identified and used personal protective equipment (PPE) appropriate to constructing halving joints			
identified and selected materials required to construct halving joints			
successfully marked out and constructed halving joints to the given specification			
From square	+/- 5mm	+/- 3mm	 +/- 1mm
• Joints	+/- 2mm to all joints	+/- 1mm to 2 joints	+/- 1mm to all joints
Twist to frame	+/- 3mm	+/- 2mm	+/- 1mm
Joints flush	+/- 2mm	+/- 1mm	All joints flush
identified and selected tools and equipment required to construct halving joints			
demonstrated safe setup of the work area.			
maintained a clean and safe working area following health and safety guidelines			
cleared the work area of surplus materials and debris on completion of the job			
cleaned all tools and equipment ready for re-use			
correctly answered question (refer to Assessor Guide)			

Assignment passed?	Final grade Pass/ Merit /Distinction
Assessor signature	
Date	



#### **Candidate Guidance**

To complete this task you must construct a frame using bridle joints as shown on the drawing (Figure 1). You must also answer a question about bridle joints correctly.

You may have a copy of the diagrams during the practical assessment. Your assessor will support you with this.

This task can be achieved at pass, merit and distinction.

#### Candidate answer record

Answer

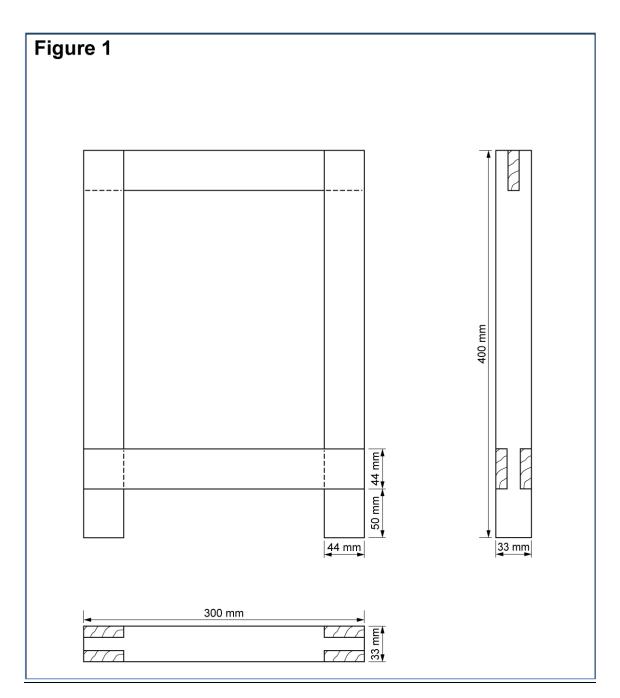
Achieved

Constructing bridle joints

Task A

Construct a frame using bridle joints





### Specification

Timber to be planed European redwood finished size 44mm X 33mm

All joints should be screwed and glued

Timber dimension 45 mm x 30 mm

**Constructing bridle joints** Marking criteria Task A



Candidate name	
Assessor name	

Centre name

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below. All criteria for each grade must be achieved to claim that grade.

The candidate has:	Pass	Merit	Distinction
identified and used personal protective equipment (PPE) appropriate to constructing bridle joints			
identified and selected materials required to construct a frame using bridle joints			
successfully marked out and constructed a frame using bridle joints to the given specification			
Width of frame	+/- 5mm	+/- 3mm	+/- 1mm
Height of frame	+/- 5mm	+/- 3mm	+/- 1mm
Twist to frame	+/- 3mm	+/- 2mm	+/- 1mm
From square	+/- 3mm	+/- 2mm	+/- 1mm
• Joints	+/- 2mm to all joints	+/- 1mm to 2 joints	+/- 1mm to all joints
Joints flush	+/- 2mm flush	+/- 1mm flush	All joints flush
identified and selected tools and equipment required to construct a frame using bridle joints			
demonstrated safe setup of the work area.			
maintained a clean and safe working area following health and safety guidelines			
cleared the work area of surplus materials and debris on completion of the job			
cleaned all tools and equipment ready for re-use			
correctly answered question (refer to Assessor Guide)			

Assignment passed?	Final grade:	Pass/Merit/Distinction
Assessor signature		
Date		

#### City **Constructing haunched mortice** Assignment 106 and tenon joints Task A Construct a frame using haunched mortice and

tenon joints

# **Candidate Guidance**

To complete this task you must construct and finish a frame using haunched mortice and tenon joints as shown on the drawing (Figure 1).

You may have a copy of the diagrams during the practical assessment. Your assessor will support you with this.

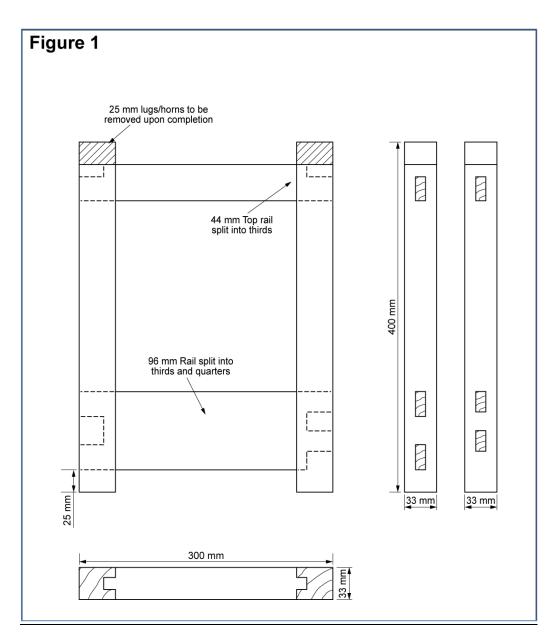
This task can be achieved at pass, merit and distinction.

# Constructing haunched mortice and tenon joints



Task A

Construct a frame using haunched mortice and tenon joints



### Specification

Timber to be planed European redwood; stiles and top rail finished size 44mm X 33mm, bottom rail 96 mm X 33 mm

All joints to be glued and wedged

Top lugs/horns to be removed upon completion to show haunches on the top rail

# **Constructing haunched mortice** and tenon joints



Marking Criteria

Centre name

Candidate name	 
Assessor name	 

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below. All criteria for each grade must be achieved to claim that grade.

Task A

The candidate has:	Pass	Merit	Distinction
identified and used personal protective equipment (PPE)			
appropriate to constructing haunched mortice and tenon			
joints			
identified and selected materials required to construct a			
frame using haunched mortice and tenon joints			
successfully marked out and constructed a frame			
using haunched mortice and tenon joints to the			
given specification			
Width of frame			
	+/- 5mm	+/- 3mm	+/- 1mm
Height of frame			
Height of frame			
	+/- 5mm	+/- 3mm	+/- 1mm
Twist to frame			
	+/- 5mm	+/- 3mm	+/- 2mm
Joints			
	+/- 2mm to	+/- 1mm to	+/- 1mm to
	all joints	2 joints	all joints
Joints flush			
• Joints hush			
	+/- 2mm	+/- 1mm	All joints
	flush	flush	flush
identified and selected tools and equipment required to			
construct a frame using haunched mortice and tenon			
joints			
demonstrated safe setup of the work area.			
			-
maintained a clean and safe working area following health			
and safety guidelines			
cleared the work area of surplus materials and debris on			
completion of the job			
cleaned all tools and equipment ready for re-use			

Assignment passed?

Final grade Pass/Merit /Distinction

### Assessor signature

Date

# Assignment 107Constructing stub mortice and tenon<br/>jointsCity<br/>GuiTask AConstruct a frame using stub mortice and



Task A Construct a frame using stub mortice and tenon joints

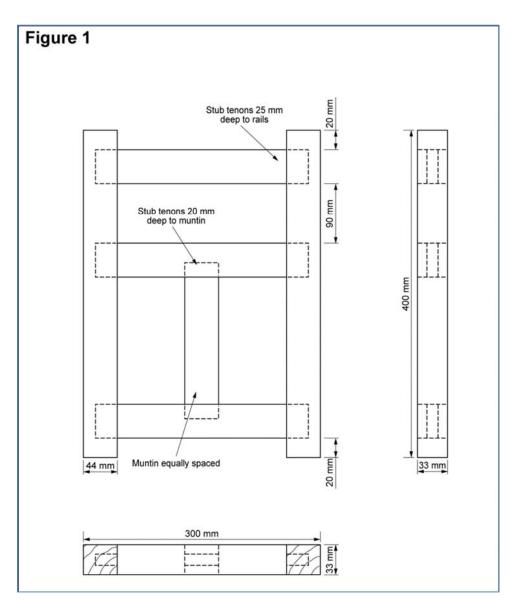
### **Candidate Guidance**

To complete this task you must construct and finish a frame using stub mortice and tenon joints as shown on the drawing (Figure 1).

You may have a copy of the diagrams during the practical assessment. Your assessor will support you with this.

This task can be achieved at pass, merit and distinction.

Unit 107	Constructing stub mortice and tenon joints	City& Guilds
Task A	Construct a frame using stub mortic	e and
	tenon joints	



# Specification

Timber to be planed European redwood; stiles and rails finished size 44mm X 33mm, muntin 44 mm X 33mm

Muntin to be spaced centrally between the stiles

All joints to be glued only

Timber dimension 45 mm x 30 mm

Unit 107

Constructing stub mortice and tenon City& Guilds



Marking criteria

Candidate name	
Assessor name	
Centre name	

Task A

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below. All criteria for each grade must be achieved to claim that grade.

The candidate has:	Pass	Merit	Distinction
identified and used personal protective equipment (PPE) appropriate to constructing stub mortice and			
tenon joints			
Identified and selected materials required to construct			
a frame using stub mortice and tenon joints			
successfully marked out, constructed and			
finished a frame using stub mortice and tenon			
joints to the given specification			
Width of frame	 +/- 5mm	 +/- 3mm	 +/- 1mm
Height of frame			
	∟ +/- 5mm	∟ +/- 3mm	∟ +/- 1mm
Twist to frame			
	+/- 5mm	+/- 3mm	+/- 2mm
From square			
	+/- 3mm	+/- 2mm	+/- 1mm
Joints			
	+/- 2mm	+/- 1mm	+/- 1mm to
	to all joints	to 2 joints	all joints
Joints flush			
	+/- 2mm	+/- 1mm	All joints
	., 2	.,	flush
Identified and selected tools and equipment required			
to construct a frame using stub mortice and tenon			
ioints			
demonstrated safe setup of the work area.			
'			
maintained a clean and safe working area following			
health and safety guidelines			
cleared the work area of surplus materials and debris			
on completion of the job			
cleaned all tools and equipment ready for re-use			

Assignment passed?	Final grade Pass/Merit /Distinction.
Assessor signature	
Date _	

# Assignment 108Fixing architraves and skirtingsTask AFixing architraves and skirting

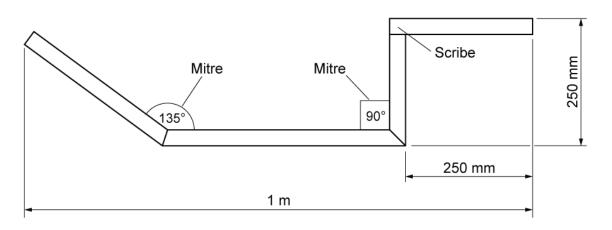


To complete this task you must mark out, cut and fix skirting and architraves as shown on the specification (Figure 1). You should have seen the marking criteria before you start the task but you should not have a copy with you during the assessment.

This task can be achieved at pass, merit or distinction.



Figure 1



Plan view

### Specification

Skirting jig to be 1m long, 250mm deep The architrave should be fitted around a full size door lining with an 8mm margin.

Fixing architraves and skirtings

Marking criteria



Task A

Candidate name			
Assessor name	 		

Centre name

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below. All criteria for each grade must be achieved to claim that grade.

The candidate has:	Pass	Merit	Distinction
identified and used Personal Protective Equipment (PPE) appropriate to marking out, cutting and fixing architraves and skirting			
identified and selected materials required to mark out, fix and cut architraves and skirting			
identified and selected tools and equipment required to construct and fix architraves and skirtings			
stated the joints used			
stated the process required to mark out, cut and fix sets of architraves and skirting			
setup the work area safely			
maintained a clean and safe working area following health and safety guidelines			
cleared the work area of surplus materials and debris on completion of the jobs			
cleaned all tools and equipment ready for re-use			
marked out, cut and fixed architrave and skirting to given specifications			
<ul> <li>skirting mitres are tight without a gap exceeding 1mm</li> </ul>			
Scribe is tight without a gap exceeding 1mm			
obtuse mitre is correctly bisected			
architrave mitres are tight without a gap     exceeding 1mm			
<ul> <li>architrave margin is 8mm within</li> </ul>	 +/-3mm	☐ +/-2mm	 +/-1mm
<ul> <li>mouldings are securely fixed with</li> </ul>	nails punched below the surface	no bent nails	no split timbers

The candidate has:	Pass	Merit	Distinction
the number of hammer marks	Two hammer marks	One hammer mark	No hammer marks

Assignment passed?	Final grade Pass/Merit/Distinction
Assessor signature	
Date	

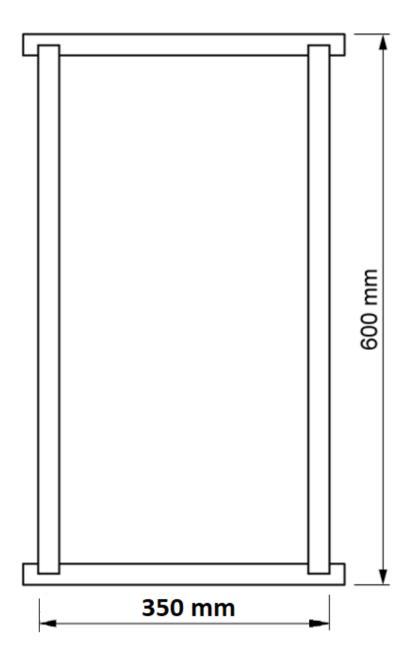
# Assignment 109Constructing and fixing hatch liningsCity&Task AMake and fix hatch liningGuilds

To complete this task you must construct and fix a hatch lining as shown on the diagrams (Figures 1, 2 and 3). You should have seen the marking criteria before you start the task but you should not have a copy with you during the assessment.

This task can be achieved at pass, merit and distinction.

Assignment 109<br/>Task AConstructing and fixing hatch liningsCity&<br/>CuildsMake and fix hatch liningGuilds

Figure 1



#### Specification

Hatch lining overall size 600mm high x 350mm wide Hatch lining material 95mm x 18mm

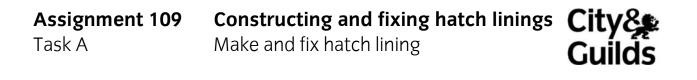
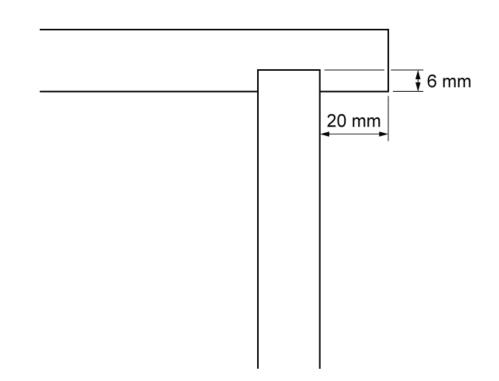


Figure 2



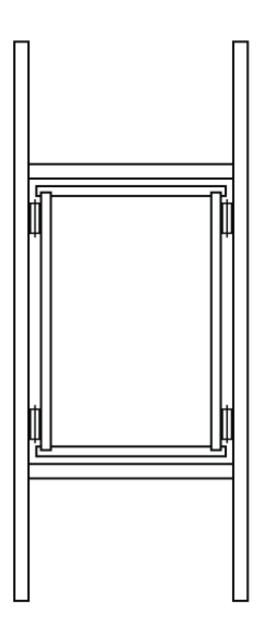
Joint detail To be fixed with  $2N^{\circ}$  50mm wire nails and white glue, squared and braced.

Task A

Constructing and fixing hatch linings City & Guilds



Figure 3



Studwork opening 650mm high x 400mm wide

Lining should be fitted centrally to the opening using wedges as packing. To be fixed in the positions shown with  $4N^{\circ}$  screws.

Constructing and fixing hatch linings City Assignment 109

Marking criteria

Candidate name Assessor name

**Centre name** 

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below. All criteria for each grade must be achieved to claim that grade.

Task A	The candidate has:	Pass	Merit	Distinction
1.1 2.1	identified and used Personal Protective Equipment (PPE) appropriate to constructing and fixing hatch linings			
1.2 2.2	identified and selected materials required to construct and fix hatch linings			
1.3 2.3	identified and selected tools and equipment required to construct and fix hatch linings			
1.4	stated/followed the process required to construct and fix hatch linings			
2.4	constructed and fixed hatch lining to given specifications			
	<ul> <li>lining is parallel within</li> </ul>	3mm	2mm	Imm
	no gaps in the joints exceeding 2mm			
	Iining square within	3mm	2mm	1mm
	<ul> <li>fitted to opening plumb (both ways) within 2mm</li> </ul>			
	fitted lining square within	3mm	2mm	1mm
	<ul> <li>lining fitted to allow for 13mm plasterboard within</li> </ul>	3mm	2mm	1mm
	Ining without twist exceeding 2mm			
3.1	setup the work area safely			
3.2	maintained a clean and safe working area following health and safety guidelines			
3.3	cleared the work area of surplus materials and debris on completion of the jobs			
3.4	cleaned all tools and equipment ready for re- use			

Assignment passed?	Yes / No	Final grade Pass/Merit/Distinction	
Assessor signature			_
Date			_

# Assignment 110 Task A

**Fitting locks and latches** Fit locks and latches



To complete this task you must mark out, cut and fit a lock and night latch as shown on the diagram (Figure 1). You should have seen the marking criteria before you start the task but you should not have a copy with you during the assessment.

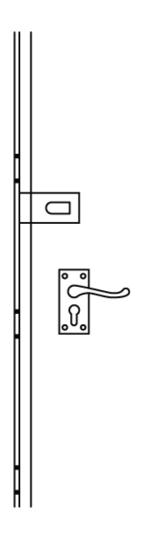
This task can be achieved at pass, merit or distinction.

Task A

Assignment 110 Fitting locks and latches Fit locks and latches

City&

Figure 1



Spindle height from the floor should be 1m.

# **Materials required**

- 3 or 5 lever sash lock
- Cylinder night latch
- Lever handles

Assignment 110 **Fitting locks and latches** Task A

Marking criteria



Candidate name Assessor name

Centre name

To pass the assignment, candidates are required to complete each task to the minimum standard indicated below. All criteria for each grade must be achieved to claim that grade.

Task	The candidate has:	Pass	Merit	Distinction
Α				
1.1 2.1	identified and used Personal Protective Equipment (PPE) appropriate to fitting locks and latches			
1.2	identified types of locks and latches			
1.3 2.2	identified and selected tools and equipment required to fit locks and latches			
1.4	stated/followed the process required to fit locks and latches			
2.3	marked out, cut and fitted locks and latches to given specifications and manufacturers' instructions			
	<ul> <li>lock forend is tight without gaps at the ends exceeding</li> </ul>	3mm	2mm	Imm
	<ul> <li>lock forend is tight without gaps at the sides exceeding 1mm</li> </ul>			
	<ul> <li>lock striking plate is tight without gaps exceeding 2mm</li> </ul>			
	<ul> <li>handles operate smoothly without binding</li> </ul>			
	<ul> <li>lock operates without binding</li> </ul>			
	spindle height is correct within	5mm	3mm	1mm
	<ul> <li>night latch striking plate is without gaps exceeding 2mm</li> </ul>			
	<ul> <li>night latch operates without binding (including the key)</li> </ul>			
	<ul> <li>handles are parallel to the edge of the door within</li> </ul>	3mm	2mm	1mm
3.1	setup the work area safely			
3.2	maintained a clean and safe working area following health and safety guidelines			
3.3	cleared the work area of surplus materials and debris on completion of the jobs			

6619 Awards, Certificates and Diplomas in Construction Skills – Candidate Task Manual

Task A	The candidate has:	Pass	Merit	Distinction
3.4	cleaned all tools and equipment ready for re-use			

# Assignment passed?

Final grade Pass/Merit/Distinction

Assessor signature

Date

# 4 Appendices

# Appendix 1 – Unit feedback and forward planning form



Feedback and action planning form

Unit and task number	
Candidate name	

Task reference	Unit feedback		
Task reference	Action plan	Target date	Achievement
			date

UK candidates General qualification information	T: +44 (0)844 543 0033 E: candidatesupport@cityandguilds.cor
International candidates	T: +44 (0)844 543 0033
General qualification information	F: +44 (0)20 7294 2413
	E: intcg@cityandguilds.com
Centres	T: +44 (0)844 543 0000
Exam entries, Registrations/enrolment,	F: +44 (0)20 7294 2413
Certificates, Invoices, Missing or late exam materials, Nominal roll reports, Results	E: centresupport@cityandguilds.com
Single subject qualifications	T: +44 (0)844 543 0000
Exam entries, Results, Certification, Missing or	F: +44 (0)20 7294 2413
late exam materials, Incorrect exam papers,	F: +44 (0)20 7294 2404 (BB forms)
Forms request (BB, results entry), Exam date and time change	E: singlesubjects@cityandguilds.com
International awards	T: +44 (0)844 543 0000
Results, Entries, Enrolments, Invoices, Missing	F: +44 (0)20 7294 2413
or late exam materials, Nominal roll reports	E: intops@cityandguilds.com
Walled Garden	T: +44 (0)844 543 0000
Re-issue of password or username, Technical	F: +44 (0)20 7294 2413
problems, Entries, Results, e-assessment, Navigation, User/menu option, Problems	E: walledgarden@cityandguilds.com
Employer	T: +44 (0)121 503 8993
Employer solutions, Mapping, Accreditation, Development Skills, Consultancy	E: business_unit@cityandguilds.com
Publications	T: +44 (0)844 543 0000
Logbooks, Centre documents, Forms, Free literature	F: +44 (0)20 7294 2413

If you have a complaint, or any suggestions for improvement about any of the services that City & Guilds provides, email: feedbackandcomplaints@cityandguilds.com

Published by City & Guilds 1 Giltspur Street London EC1A 9DD T +44 (0)844 543 0000 F +44 (0)20 7294 2413 www.cityandguilds.com

City & Guilds is a registered charity established to promote education and training