

Institute for Apprenticeships & Technical Education

T Level Technical Qualification in Onsite Construction

8711-305 Bricklaying

Grade Standard Exemplification Material Distinction - Summer 2023



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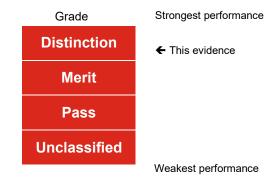
Introduction

Summer 2023 Results

This document is aimed at providers and learners to help understand the standard that was required in the summer 2023 assessment series to achieve a distinction grade for the 8711-305 Bricklaying Occupational Specialism (OS).

The aim of these materials is to provide examples of knowledge, skills and understanding that attested to **two marks above** distinction competence in summer 2023. It is important to note that in live assessments a candidate's performance is very likely to exhibit a spikey profile and standard of performance will vary across tasks.

The Occupational Specialism is graded Distinction, Merit, Pass or Unclassified.



The distinction grade boundary is based on a synoptic mark across all tasks. The materials in this Grade SEM are separated into two sections as described below. Materials are presented against a number of tasks from the assignment.

Tasks

This section details the tasks that the candidate has been asked to carry out. What needs to be submitted for marking and any additional evidence required including any photograph/video evidence. Candidate evidence that was or was not included in this Grade SEM has also been identified within this section.

In this Grade SEM there is candidate evidence from:

Task 1 Prepare and plan for the construction and repair of complex masonry structures Task 2 Construct complex masonry structures Task 3 Renovate and repair masonry structures

Candidate evidence

This section includes exemplars of candidate work, photographs of the work in production (or completed) and practical observation records of the assessment completed by provider assessors. This was evidence that was captured as part of the assessment and then internally marked by the provider assessor.

The Occupation Specialism brief and tasks can be downloaded from here:

Important things to note:

- We discussed the approach to standard setting/maintaining with Ofqual and the other awarding organisations before awarding this year. We have agreed to take account of the newness of qualifications in how we award this year to recognise that students and teachers are less familiar with the assessments (Vocational and technical qualifications grading in 2023 – Ofqual blog), whilst also recognising the standards required for these qualifications.
- The evidence presented, as a whole, achieved **two marks** above the distinction grade. However, performance across the tasks may vary (i.e. some tasks completed to a higher/lower standard than distinction grade).

Grade descriptor

To achieve a distinction, a candidate will be able to:

Demonstrate an exemplary performance that fully meets the requirement of the brief, demonstrating exemplary technical skills and techniques for planning, preparing, setting out and constructing complex masonry to industry standards including level plumb and gauge, quality of finish and is able to enter the industry to begin to work in the occupational area.

They will demonstrate relevant and comprehensive knowledge and understanding of complex masonry principles and processes through the tasks completed. They will work safely and make informed and appropriate use of tools, materials, and equipment within the construction environment that they are operating.

Competently and independently, they will interpret information, demonstrate excellent planning, assess risk, and follow safe working methods when applying the technical skills to practical tasks and procedures.

Carry out tasks to an exemplary standard as recognised by industry, producing an excellent quality of work that meets acceptable tolerances, regulations, and standards. Solution focussed, confidently diagnosing complex tasks and faults in masonry. They will be able to accurately research, identify and rectify issues independently. Communicate with stakeholders building excellent working relationships to support the planning and execution of a brief.

Consistently use industry terminology appropriately in both written and verbal contexts.

Task 1 Prepare and plan for the construction and repair of complex masonry structures

Assessment number (eg 1234-033)	8711-305
Assessment title	Bricklaying Occupational Specialism
Candidate name	<first name=""> <surname></surname></first>
City & Guilds candidate No.	ABC1234
Provider name	<provider name=""></provider>
City & Guilds provider No.	999999a

Task(s)	1
Evidence title / description	 A method statement A risk assessment A bill of quantities A materials/tools list The design of a decorative archway in a suitable scaled drawing (using a maximum of 300 bricks) A candidate statement
Date submitted by candidate	DD/MM/YY

Task 1

Assessment themes:

- Health and safety
- Design and planning
 - o Documents
 - o Drawings and design
- Presentation

Design and draw a decorative archway for the client to consider incorporating into a new section of the garden wall forming a new entrance to the existing garden. The drawing should be produced to a suitable scale and include a specification for the type and quantity of materials, and joint finishes. You will present the design and scaled drawing of the proposed archway to the client. Your tutor/assessor will act as the client.

You will be provided with a suitable area to complete the task and will produce a plan and drawing to a suitable scale to present to the client and the presentation should not exceed 15 minutes.

You will be provided with the assignment brief and given time to plan for the work.

You are required to detail the materials required, take measurements of the working area to calculate quantities of materials needed and explain why you are requesting these resources.

It is expected that you will produce a bill of quantities, materials/tools list, method statement planning your work and a risk assessment in addition to the drawing.

Templates for the method statement, materials list and risk assessment will be provided at the beginning of the task.

Your tutor/assessor will act as the customer during your presentation and record any feedback on the tutor/assessor feedback form

You must complete the preparation and planning activity prior to carrying out Tasks 2 and 3.

If you provide a plan that is not fit for purpose it is expected that your tutor/assessor will intervene and provide necessary feedback and corrections to the plans, and this will be commented on in the marking documentation and reflected in marks awarded.

Additional evidence of your performance that must be captured for marking:

- Tutor/assessor observation of the presentation
- Tutor/assessor observation of measurements of the site location/work area to be confirmed by the tutor/assessor at the start of the planning activity.

Candidate evidence

Completed Method Statement

Task 1 - Method Statement

Candidate name:

City & Guilds enrolment number:

Method statement for decorative archway

- I would start risk that have been diagnosed and implement health and safety measures to minimise possible risk. I will follow building regs.
- After reviewing the risk correct PPE would be acquired to ensure all risks are minimised. This would include steel toe caps, gloves and protective clothing.
- Use the materials list to order all the materials with an extra 5% included. To ensure a sufficient amount materials are accessible to complete the job.
- Set out all the tools needed, the allocate them to the area of work.
- Start out by marking out the area on the tarp dust covers and sheet of ply to prevent spillage and set out an area for work to commence.
- Set the mixer up near a source of water and electricity.
- Get stock cards set up outside the outlined area 1 m at least away.
- Then get the materials delivered and placed appropriate. For example the sand and cement on dust covers by the mixer. Then the bricks loaded out opposite to stock boards.
- Begin by laying a first course set up with a line and pins and ensure the demons matches the decorative archway.
- Begin building up, moving up the line and pins as I go till the courses are all finished ensuring it matches the plan make sure wall is plum, gauged and ranged then implement the weather struck pointing.

Day 2 construct the gothic arch using a turning piece that is then supported by folding wedges and leave that to set for 2 hours.

Finishing constructing the pillars around it.

Day 3 take the folding wedges and turning piece out then on use a different piece to support the final arch.

• After that dispose of waste. Use waste segregation.

Completed Risk Assessments

Task 1 - Risk Assessment

Candidate name:

Task			
Hazard	Risk	Control	Probability
Setting up mixing equipment	- Trailing lead - Trip hazards	- Tape leads out the way. Sign post – designated areas	Low
Contested working area	Trip hazards – equipment being broken	Implement MHOR Don't lift more than 20 kg – use lifting equipment	Low
Irritation to the eye	- Loose debris landing in your eye	PPE – eye protection	Low
Working at heights	- Falling from heights	Use appropriate scaffolding – tussles toe boards	Low
Task			
Hazard	Risk	Control	Probability
POWER Danger from power tools	Using compromised equipment	Use PUWER regulated equipment	Low
COSHH Inhalation of dangerous chemicals	Inhaling cement dust	Standing away from the mixer and wearing a mask	Low
Hazardous waste	Environmental damage – injury	Waste segregation - Disposal of hazardous waste appropriately	Low
Wet floor surfaces	Slipping on wet surfaces	 Putting plywood over wet surfaces Clear up as you go 	Low

Task			
Hazard	Risk	Control	Probability
Manual handling	- Structural damage	 MHOR – life below 20 kg and use lifting equipment 	Low
Working on uneven surfaces	- Tripping – injury	- Work on level ground	Low

Task 2 - Risk Assessment

Candidate name:

Task			
Hazard	Risk	Control	Probability
Constructed working area	Trip hazards Obstacles	More stock board and materials 1 m away from wall	Low
Irritation to the eyes	Lime – comp getting in eye	Wear glasses	Low
Use of vehicles – forklift	In way of forklift	Move well away from forklift hotspots	Low
Wet floors	Slipping on floor	Clean up spillage Wear boots	Low
Task			
Hazard	Risk	Control	Probability
Manual handling	Carrying weight over 20kg	Use lifting equipment	Low
Working on un level surfaces	Tripping over – injury	Work on level surfaces	Low
Blast damage	From cutting blocks	Wear gloves Eye protection	Low

Dropping heavy items	Injury to foot	Listing equipment	Low
on food		Steel toe caps	

Task 3- Risk Assessment

Candidate name:

Task			
Hazard	Risk	Control	Probability
Irritation to eye	Getting comp in the eyes	Wear safety glasses	Low
Chemical burns	Chemical burns from mixing	Wear gloves	Low
Kneeling on concrete floor	Damage to knee	Use kneepads – floor mats	Low
Working on wet surfaces	Slipping over	Clean up spillage	Low
Task			
Hazard	Risk	Control	Probability
Congested area	Tripping hazard	Manage work area	Low
Manual handling	Lifting heavy weight	Use lifting equipment	Low

Completed Bill of Quantities

Task 1 – Bill of Quantities

Candidate name: number:

Г

City & Guilds enrolment

Bill of Quantities

Item Description	Quantity	Units	Rate	Amount
Orange engineering brick	177	X	£0.82 = :	
Blue engineering brick	93	X	£1.32 = £	
2 x custom made keystone	2	X	£42.80 =	
	L	A	212.00	200.00
Item Description	Quantity	Units	Rate	Amount
Sand 3 16			£5.00	= 80
Cement 30	4		£7.50	=
Mortar plasticiser	2		£10.99	= 21.98
Item Description	Quantity	Units	Rate	<u>Amount</u>
Labour £200 a day x 3 = 600				
Item Description	Quantity	Units	Rate	Amount
Total cost = 1085.25				

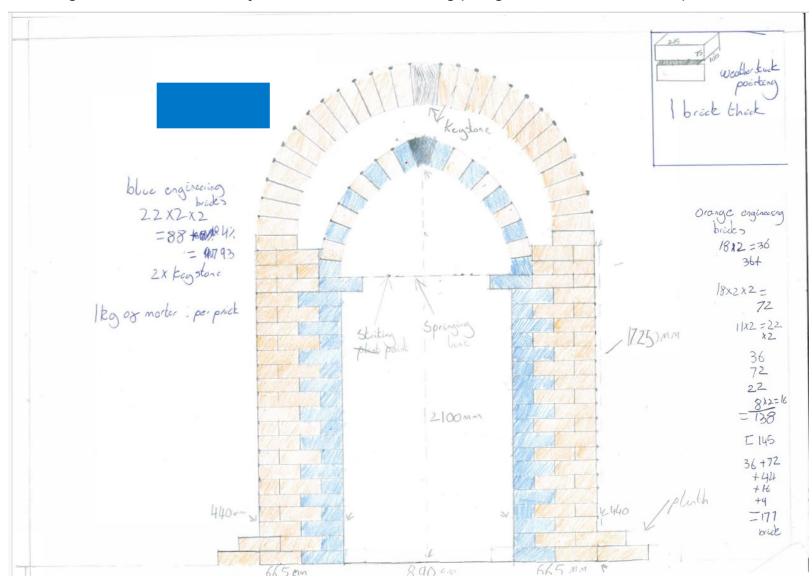
Completed Materials/Tools List

Task 1 – Resource List

Candidate name:

Tools/Equipment/Materials	Quantity
PPE	
Eye protection	x 1
Steel toe cap boots	x 1
Gloves	x 1
Protective clothing	x 1
Dust mask	x 1
Lifting equipment	x 1
First aid box	x 1
Pencil	x 2
Stanly knife	x 1
1,800mm spirit level	x 1
Boat level	x 1
Brook trowel	x 1
Pointing trowel	x 1
Disk cutter	x 1
Steel square	x 1
Line and pins	x 1
Lump hammer bolster	x 1
Cement mixer	x 1

Wheel barrow	x 1
Bolster	x 1
Scrunch hammer	x 1
Bucket	x 1
110 transformer	x 1
Turning pieces	x 2
Folding wedges	x 2
Ply sheets	x 6
Dust sheets	x 6
Extension lead	x 1
Blue engineering bricks	x 93
Orange engineering bricks	x 177
Sand	
Cement	
Feb mix	x 1
Guage rod	x 1
Keystone	x 2
Mortar plasticiser	x 2
Spot boards	x 2



The design of a decorative archway in a suitable scaled drawing (using a maximum of 300 bricks)

Candidate statement

I chose this wall because it is aesthetically pleasing for a garden gate with maximum of 300 bricks. The mix of two different arches allows the arch to stand out. It 's a unique study design that is 1 brick thick and the use of different colours allows it to stand out

Practical Observation (PO) Form (Task 1)

8711-35 T Level Technical Qualification in Onsite Construction

8711-305 Bricklaying (Summer 2023)

Candidate name	<first name=""> <surname></surname></first>
City & Guilds candidate No.	ABC1234
Date	14 March 2023
Provider name	<provider name=""></provider>
City & Guilds Provider No.	999999a

Task 1 assessment themes:

- Health and safety
- Design and planning
 - Documents
 - o Drawings and design
- Presentation

Record observation notes below to inform internal marking and external moderation. Notes must be detailed, accurate and differentiating which use terminology from the mark grid along with specific examples observed. Notes must identify areas of strength and weakness, distinguish between different qualities of performance and to facilitate accurate allocation of marks once all evidence has been submitted.

Assessment Themes	Assessor observation notes
 Health and safety Risk assessment Risk mitigation Harm and probability factors Adherence to health and safety 	Risk assessment complete and covers all risks associated with tasks. Mitigation methods completed and identified. Harm factors included and covers some regulations.
 Design and planning (documents) Quality of documentation Justifications and reasoning Adherence to brief Quantities 	Documents are clear with good detail. All document linked together with good justifications. Materials/tools list completed in detail.

Design and planning (drawings and design) Measurements Quality of drawing Quality of design Adherence to task	Drawing design complete with measurements and workings. Really good design in detail with correct terminology. Measurements (workings) would have been better on a separate piece of paper.
 Presentation Clarity / quality Interaction Body language Reasoning Terminology / language Representation of chosen design 	Presentation clear with good subject knowledge/terminology. Good reasoning around choice of design. Accurate amount of materials used.

Any other aspects

Internal assessor signature	Date
X	14/03/2023

If completing electronically, double click next to the 'X' to add an electronic signature once the record is **finalised**.

Task 2 Construct complex masonry structures

Assessment number (eg 1234-033)	8711-305
Assessment title	Bricklaying Occupational Specialism
Candidate name	<first name=""> <surname></surname></first>
City & Guilds candidate No.	ABC1234
Provider name	<provider name=""></provider>
City & Guilds provider No.	999999a

Task(s)	2
Evidence title / description	 Photographic evidence Video evidence
Date submitted by candidate	DD/MM/YY

Task 2

Assessment themes:

- Health and safety
- Design and planning
 - o Documents
 - Drawings and design
- Construct complex masonry structures
 - Construct
 - Setting out / marking out
 - o Plumb / level / gauge
 - o Bonds
 - $\circ \quad \text{Joint finishes} \\$
 - o Cleanliness and disposal of waste

You are required to complete the work as described in the assignment brief specifications, following the planned sequence as detailed in the planning for Task 1.

Construct a sample decorative panel according to the drawing and client's specifications.

You will be provided with the assignment brief and given time to plan for the work. It is expected that you will produce a sample decorative panel as per the specification and drawing provided.

You will be provided with a specific working area and sufficient materials and must measure and mark out your work area.

Additional evidence of your performance that must be captured for marking:

- Tutor/assessor observations
- Photographs taken by your tutor/assessor at various stages of the task.

Candidate evidence

Completed PO form

Practical Observation (PO) Form (Task 2)

8711-35 T Level Technical Qualification in Onsite Construction

8710-305 Bricklaying (Summer 2023)

Candidate name	<first name=""> <surname></surname></first>
City & Guilds candidate No.	ABC1234
Date	29-03-23
Provider name	<provider name=""></provider>
City & Guilds Provider No.	999999a

Task 2 assessment themes:

- Health and safety
- Design and planning
 - Documents
 - \circ $\,$ Drawings and design
- Construct complex masonry structures
 - Construct
 - Setting out / marking out
 - Plumb / level / gauge
 - o Bonds
 - o Joint finishes
 - Cleanliness and disposal of waste

Record observation notes below to inform internal marking and external moderation. Notes must be detailed, accurate and differentiating which use terminology from the mark grid along with specific examples observed. Notes must identify areas of strength and weakness, distinguish between different qualities of performance and to facilitate accurate allocation of marks once all evidence has been submitted.

Assessment theme	Assessor observation notes
Health and safety	
 Risk assessment Risk mitigation Harm and probability factors Adherence to health and safety 	Risk assessment complete and covers all risks for task. Health and safety is followed prior to starting and throughout the task.

Design and planning (documents)	Not related to task 2
 Quality of documentation Justifications and reasoning Adherence to brief Quantities 	
Design and planning (drawings and design)	Not related to task 2
 Measurements Quality of drawing Quality of design Adherence to task 	
 Construct complex masonry structures (construct) Preparation and lay out Tool selection Use of materials Accuracy/quality of cutting Shaping Errors/defects Adherence to specification 	Good preparation of task with only minor inaccuracies (loading out to close). Tool selection excellent. Materials used correctly. Cutting very good, very accurate marking, and shaping. Excellent finish that fully represents the specification.
 Construct complex masonry structures (setting out / marking out) Sequencing Accuracy of joint sizes Measurement / preparation of panel components 	Wall set out and completed in a logical sequence. Joint sizes accurate. All components accurately measured and marked out prior to cutting.

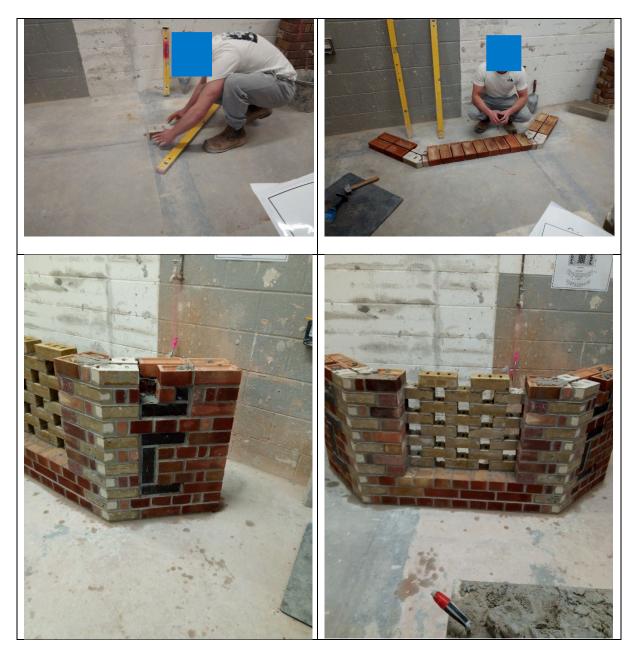
Construct complex masonry structures (plumb / level / gauge) • Plumbing joints • Levelling • Gauge	All plumbing parts are maintained and are within tolerance. Levelling is excellent throughout. Gauge is sport on (every course) (EXCELLENT WORK)
Construct complex masonry structures (bonds) • Quality of bonding • Stability • Visual	Bonding is accurate and well balanced. The wall is stable and the wall is aesthetically pleasing.
Construct complex masonry structures (joint finishes) • Application • Joints • Quality of finish • Visual	Good clean joint finish. All joints are full. Excellent finish to the wall overall.
Construct complex masonry structures (cleanliness and disposal of waste) • Tidiness and cleanliness • Waste disposal	Area is tidy throughout. Waste is disposed of correctly at regular intervals.

Any other aspects

Internal assessor signature	Date
<u>X</u>	31/3/23

If completing electronically, double click next to the 'X' to add an electronic signature once the record is **finalised**.

Photographic evidence









Task 3 Renovate and repair masonry structures

Assessment number (eg 1234-033)	8711-305
Assessment title	Bricklaying Occupational specialism
Candidate name	<first name=""> <surname></surname></first>
City & Guilds candidate No.	ABC1234
Provider name	<provider name=""></provider>
City & Guilds provider No.	999999a

Task(s)	3
Evidence title / description	 Photographic evidence Video evidence
Date submitted by candidate	DD/MM/YY

Task 3

Assessment themes:

- Health and safety
- Design and planning
 - Documents
 - Drawings and design
- Repair of masonry structures
 - Preparation
 - $\circ \quad \text{Repair work} \\$

You will need to carry out repairs to an existing planter including replacing damaged bricks, removing the mortar joints and re pointing in coloured mortar to the agreed specification.

You must plan your time and complete all of the tasks.

Additional evidence of your performance that must be captured for marking:

- Tutor/assessor observations
 - Inspect and removal as part of preparation
 - \circ $\;$ Bricks removed without excessive damage to the wall
 - Repaired brickwork observations to include working with tolerances
- Photographs taken by your tutor/assessor at various stages of the task.

Candidate evidence

Completed PO form

Practical Observation (PO) Form (Task 3)

8710-35 T Level Technical Qualification in Onsite Construction

8710-305 Bricklaying (Summer 2023)

Candidate name	<first name=""> <surname></surname></first>
City & Guilds candidate No.	ABC1234
Date	DD/MM/YY
Provider name	<provider name=""></provider>
City & Guilds Provider No.	999999a

Task 3 assessment themes:

- Health and safety
- Design and planning
 - Documents
 - Drawings and design
- Repair of masonry structures
 - \circ Preparation
 - \circ Repair work

Record observation notes below to inform internal marking and external moderation. Notes must be detailed, accurate and differentiating which use terminology from the mark grid along with specific examples observed. Notes must identify areas of strength and weakness, distinguish between different qualities of performance and to facilitate accurate allocation of marks once all evidence has been submitted.

Assessment theme	Assessor observation notes
Health and safety	Risk assessment complete and covers all risks for task.
 Risk assessment Risk mitigation Harm and probability factors Adherence to health and safety 	Harm probability, and mitigation covered. Health and safety is followed during preparation and throughout task.

 Design and planning (documents) Quality of documentation Justifications and reasoning Adherence to brief Quantities 	Not related to task 3
Design and planning (drawings and design)	Not related to task 3
MeasurementsQuality of drawingQuality of design	
Adherence to task Repair of masonry	Comprehensive inspection made of wall defects. Materials/bricks removed
 structures (preparation) Pre-inspection Removal of materials Brushing and cleaning Protection 	safely, brushed and cleaned out. Wall/structure protected from further damage during prepation.
Repair of masonry structures (repair work) Quality of mortar Quality of jointing Sequencing Errors Material wastage Overall quality Adherence to specification	Mortar is correctly gauged and mixed. Colour added correctly and checked. Jointing is good and completed in a logical sequence. Work completed with only minor errors. Specification followed correctly.

Any other aspects

Internal assessor signature	Date
<u>X</u>	31/03/23

If completing electronically, double click next to the 'X' to add an electronic signature once the record is **finalised**.

Photographic Evidence







Get in touch

The City & Guilds Quality team are here to answer any queries you may have regarding your T Level Technical Qualification delivery.

Should you require assistance, please contact us using the details below:

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Web chat available here.

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