

T Level Technical Qualification in Onsite Construction

Bricklaying

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Candidate Pack

Practical Assignment - Sample

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Version and date	Change detail	Section
1.1 Jan 2021	Removal of “use of tools” in what must be produced for marking	Task specific guidance – Additional evidence of candidate performance that must be captured for marking: Assessor Observation Task 2 Pg. 10 and Task 3 Pg. 11

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Assessment

This assessment is for the Bricklaying occupational specialism component of the Technical Qualification. This pack consists of a practical assignment that includes a project brief including drawing and diagrams as necessary along with several tasks for you to complete.

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Candidate guidance

General guidance

This is a formal assessment that you will be marked and graded on. You will be marked on the quality and accuracy of the work you produce. It is therefore important that you carry your work out to the highest standard you can.

Plagiarism

This is an assessment of your abilities, so the work must be all your own work and carried out under the conditions stated. You will be asked to sign a declaration that you have not had any help with the assignment.

Your tutor is allowed to give you some help understanding the instructions if necessary, but they will record any other guidance you need, and this will be taken into account during marking.

Plagiarism is the failure to acknowledge sources properly and/or the submission of another person's work as if it were your own. Plagiarism is not allowed in this project.

Where research is allowed, your tutor must be able to identify which work you have done yourself, and what you have found from other sources. It is therefore important to make sure you acknowledge sources used and clearly reference any information taken from them.

Timings and planning

You are advised to study the details of the assessment before starting.

You should check with your tutor that you have all the relevant materials, equipment, and information/data sources that you need before starting the assessment.

You should take care when planning to make sure you have divided the time available between parts of the assignment tasks appropriately. Timings for tasks are provided within this pack to support with planning and time allocation.

If you have a good reason for needing more time, you will need to explain the reasons to your tutor and agree a new deadline date. Changes to dates will be at the discretion of the tutor, and they may not mark work that is handed in after the agreed deadlines.

If you have a good reason for needing more time, you will need to explain the reasons to your tutor, and this must be agreed by City & Guilds.

Health and Safety

You must always work safely, in particular while you are carrying out practical tasks.

You must always follow any relevant Health and Safety regulations, Risk Assessments, and codes of practice in line with centre requirements.

If your tutor sees you working in a way that is unsafe for yourself or others, they will highlight the issue and ask you to stop the task immediately. Your tutor will not be able to reassess you until they are sure you are ready for assessment and can work safely.

Presentation of work

Presentation of work must be appropriate to the task.

You should make sure that each piece of evidence including any forms are clearly labelled with your name and the project reference.

All electronic files must be given a clear file name that allows your tutor to identify it as your work.

Written work may be word-processed or handwritten unless stated otherwise.

All sketches and drawings should be neat and tidy, to scale and annotated.

Calculations should be set out clearly, with all working shown, as well as any assumptions made. You should use appropriate units at all times, consistent with the requirements of the assignment.

Instructions for this assignment

Ensure you read all the provided assessment information contained in this candidate pack.

You must work independently and not share your work with any other candidates in these supervised assessment sessions.

Your work will be kept secure during any supervised breaks that are taken.

Internet access is not allowed.

You must complete all the tasks and present all evidence that is detailed in each task.

This candidate booklet contains:

- An assignment brief
- Task 1
- Task 2
- Task 3

Within each task you will find the following:

Conditions of assessment: This will tell you the duration and rules you must follow when completing a task.

What must be produced for marking: This describes the evidence you must submit when the task is completed. Be aware failure to submit any evidence requested can adversely affect your overall mark for the assessment

Additional evidence for this task: This describes other forms of evidence that will be collected by the assessor to support the marking of your performance. This will often include but not limited to photographic and video evidence.

Assignment brief

You are an employee of TMC Construction Ltd, a local construction company and you have been commissioned by a new client to work on a construction project at a historic property. The work includes providing a design for a decorative brick panel, constructing a sample panel designed by the client and the refurbishment and repair of an existing chimney.

You have a period of four days (24 hrs) for this work, and the client has provided the following Instructions:

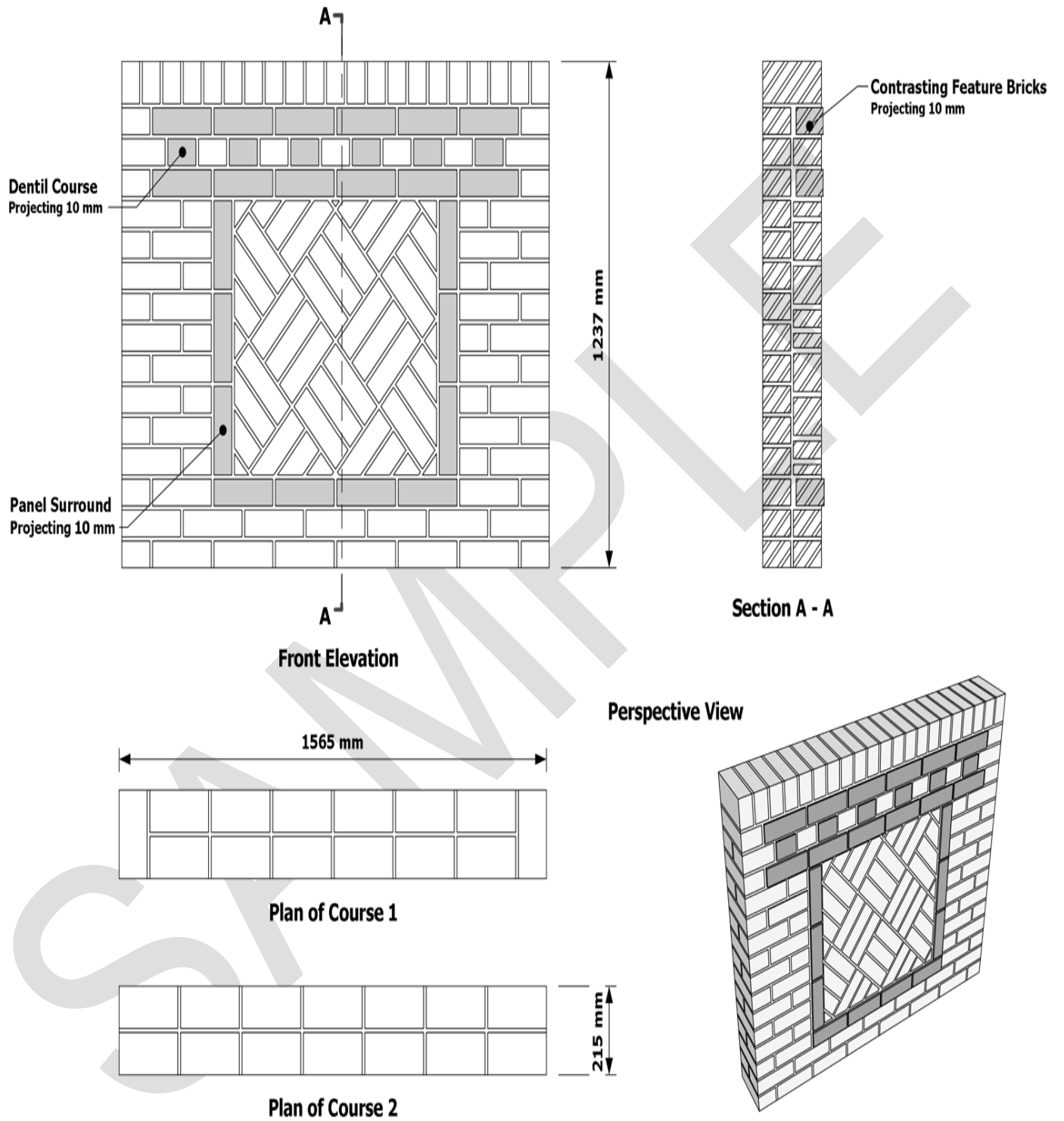
- a) Design and draw a complex decorative panel for the client to consider incorporating into a new section of the garden wall as part of the ongoing construction work on the property. The drawing should be produced to a suitable scale and include a specification for the type and quantity of materials, and joint finishes.
- b) The client has requested the construction of a sample panel according to their specification, to demonstrate the quality and type of finish of the work, before commencing on the full construction.

The client has requested that the sample panel is constructed using the drawing (as detailed in Figure 1) and with specification as follows:

- Wall to be one brick thick
- The client has asked you to decide and execute your decision on the contrasting brick colour and suitable joint finishes
- Features to project as shown on the drawing

Figures for the assignment brief requirements:

Figure 1. Details for the construction of the sample decorative panel



c) One of the existing chimneystacks in the main building is in need of repair, you need to replace the chimney pot, and the flaunching, replace a defective brick in the stack and re point one face of the stack to match the original finish.

Specifications:

- Top of stack: New clay pot to be fitted to the existing chimney
- Select suitable materials to repair the masonry
- Flaunching: Top of stack to be flaunching in cement mortar
- Jointing: Face of stack to be jointed in weather struck jointing with a coloured mortar

(The chimneystack is pre-constructed and will be at ground level)

This assignment has a time allocation of 24 hours. You should plan your time to complete all the tasks.

Tasks

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

Your assessor will provide you with a specific working area, approximate maximum, and minimum dimensions as per the specification to ensure you meet the centre's resources. Your plan and drawing must be applicable to the area you are being assessed in and are to a suitable scale.

a) Plan for the construction and repair works on the historic property

b) Design a sample decorative panel to a suitable scale

c) Present their design of a sample decorative panel to the client

Conditions of assessment:

- The time allocated for this task is 5 hours
- You must carry out the task on your own, under controlled conditions

What must be produced for marking:

- Measurements of location/area
- Method statement
- Bill of quantities
- A materials/tools list
- A risk assessment
- The design of a decorative panel to a suitable scale (using a maximum of 250 bricks)
- Present the design and scaled drawing of the proposed decorative panel to the client

A template for the method statement, materials list and risk assessment will be provided at the beginning of this assignment

The assessor will act as the client during the presentation and record any feedback on the assessor feedback form

The presentation should **not** exceed 15 minutes.

Additional evidence for this task:

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

Task 2 – Construct complex masonry structures

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

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

Conditions of assessment:

- The time allocated for this task is 15 hours
- You must carry out the task on your own, under controlled conditions

What must be produced for marking:

- A completed decorative sample panel

Additional evidence for this task:

- Assessor observations
 - Completed decorative sample panel - observations to include working with tolerances
- Assessor photographic/video evidence at various stages to show candidates progress against
 - Video evidence of first course laid
 - Video evidence of setting out/measuring/markings out
 - Photographic evidence of the plumb, line, and gauge work
 - Video evidence of work in completion at start, at stages and close to completion of decorative panel
 - Photographic evidence of the completed panel one from the front elevation
 - Photographic evidence of the completed panel from the side elevation
 - Photographic evidence of work area/housekeeping/waste disposal managements at middle and completion of task

Task 3 – Renovate and repair masonry structures

Carry out repairs to an existing chimney including replacing the pot, flaunching, remove and replace a damaged brick and re pointing an area of the chimney to match the original style to the agreed specification

Conditions of assessment:

- The time allocated for this task is 4 hours
- You must carry out the task on your own, under controlled conditions

What must be produced for marking:

- The chimney pot fitted and flaunching
- Damaged brick is removed and replaced
- One elevation of the chimney stack weather struck jointed with coloured mortar

Additional evidence for this task:

- Assessor observations
 - Inspect and removal as part of preparation
 - Chimney pot fitted and flaunching
 - Repaired brickwork - observations to include working with tolerances
- Assessor photographic/video evidence at various stages to show candidates progress against
 - Photographic evidence of inspect and removal of materials for preparation or repair
 - Photographic evidence of removal and replacement of corbelling new clay fitted to the existing chimney
 - Photographic evidence of the top of stack flaunching in cement mortar
 - Video evidence of gauging coloured mortar
 - Photographic evidence of the face of the stack once jointed
 - Photographic evidence of the finished repair from top and side elevation

End of Assessment

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