

Assessment Guide

Module Code and Name	CMA4001, Construction Methods, Materials and Technology
Module Leader	Dr Amir Meibodi
Cohort	February 22
Level	Level 4
Assessment component	Component 1: Individual video presentation Component 2: Essay
Restrictions on time/word count	Component 1: 15 mins Component 2: 2000 words
Individual/group	Both components are individual submissions
Assessment weighting	Component 1: Individual presentation = 25% Component 2: Essay = 75%
Submission date	Component 1: Individual presentation Deadline:14/05/2023 before 23:59 Component 2: Essay Deadline:22/05/2023 before 23:59
Planned feedback date	Approximately two weeks from the submission date

Assessment Task - Summary

The assignment for this module includes **two** components:

Component 1 – Video Presentation (approx. 15mins)

You are to prepare and deliver a 15-minute video presentation explaining the different structural forms and choice of materials for a range of buildings (see full details below).

Component 2 – Essay (2000-words)

You are required to submit a **2000-word** essay on how the choice of building materials affects human comfort requirements for a selected building, along with how health and safety regulations impact the use, storage and handling of construction materials.

Assessment Task – Detailed Instructions

Component 1 – Video Presentation (15 mins)

You are required to use the scenario below for this component. Based on the proposed development scenario, you are required to prepare and present and record an individual video presentation (**Approx. 10 - 12 PowerPoint slides**) to explain the different structural forms that could be used in the production of a development, which will include domestic houses, a supermarket, and a medical surgery. You also need to discuss choices of suitable materials for the development project.

Presentation Guidance:

You can structure your PowerPoint slides as follow:

Slides 1 - 2 = Introduction

Slides 3 - 4 = Construction technology concepts, and your rationale for choosing your proposed type of construction

Slides 5 - 6 = Key features and design elements, including rationale.

Slides 7 - 8 = Chosen materials profiling and lifecycle.

Slides 9 - 10 = Conclusion and reference list.

Note: this is an advisory structure, you may choose your own structure within the 10 - 12 slides limit.

Proposed Development Scenario

You have been appointed as a trainee Project Manager for a small-medium size construction company, which is working as part of the Project Management team to deliver a new multi-use development project. You have been asked to outline your proposal and chosen methods to a board for final decision during a 15-minute presentation.

The development includes 90 new domestic houses ranging from two-bedroom houses through to five-bedroom detached family homes. The development will also include a new civic centre comprising of a 2000m² supermarket and a medical centre.

The Project Architect has asked you to explore the different types of construction methods and materials that could be used for the building of the three different structural forms that make up the project. Once you have done this, you will need to select an appropriate construction method for each type of building and present this during your presentation including the reasons for your choice.

The images provided below are those of the designers' impression of the proposed buildings.



Designer's impression of residential houses



Designer's impression of the new supermarket



Impression of the proposed medical centre

Component 2 – Essay (2000 words)

Selecting an example of one of the buildings above (e.g. residential, medical centre or supermarket), you are required to compose a 2000-word essay covering the following information:

1. Materials selection in relation to human comfort requirements.

This should include:

- Identifying and describing the factors which affect human comfort for your chosen building.
- Explaining the function and design of building services for your chosen building to ensure human comfort.
- Providing solutions to indoor environmental quality issues to overcome thermal, illumination, sound, and ventilation issues in your chosen building.
- Discussing the standard building services installed in your choice of building to meet appropriate human comfort levels.

2. Health and safety regulations and their impact on the use, storage, and handling of construction materials.

This should include:

- Identifying the relevant regulations and describing their impact on the use, storage, and handling of the construction materials used in your selected building.
- Explaining how risk assessments can be used to monitor and control risks associated with the use, storage, and handling of the construction materials listed above.

Assessment criteria/marking rubric *For component 1 (presentation = 25% of total mark).*

Dimensions	70 – 100% (1 st)	60 – 69% (2:1)	50 – 59% (2:2)	40 – 49% (3 rd)	0 – 39% (Fail)
Criterion 1 (25%) Explanation and discussion about construction technology concepts and techniques including substructure and superstructure.	Excellent explanation and discussion about construction technology concepts and techniques including substructure and superstructure.	Very good explanation and discussion about construction technology concepts and techniques including substructure and superstructure.	Satisfactory explanation and discussion about construction technology concepts and techniques including substructure and superstructure.	Basic explanation and discussion about construction technology concepts and techniques to including substructure and superstructure.	Inadequate explanation and discussion about, or not addressed, construction technology concepts and techniques including substructure and superstructure.
Criterion 2 (25%) Explanation and discussion about the key features and design elements of each building substructure and superstructure.	Excellent explanation and discussion about the key features and design elements of a building substructure and superstructure.	Very good explanation and discussion about the key features and design elements of a building substructure and superstructure.	Satisfactory explanation and discussion about the key features and design elements of a building substructure and superstructure.	Basic explanation and discussion about the key features and design elements of a building substructure and superstructure.	Inadequate explanation and discussion about, or not addressed, the key features and design elements of a building substructure and superstructure.
Criterion 3 (25%) Explanation and discussion about the environmental considerations of the project lifecycle, particularly when it comes to materials selection.	Excellent explanation and discussion about the environmental considerations of the project lifecycle including materials selection.	Very good explanation and discussion about the environmental considerations of the project lifecycle including materials selection.	Satisfactory explanation and discussion about the environmental considerations of the project lifecycle including materials selection.	Basic explanation and discussion about the environmental considerations of the project lifecycle including materials selection.	Inadequate explanation and discussion about, or not addressed, the environmental considerations of the project lifecycle including materials selection.
Criterion 4 (10%) Referencing: Illustration of a wide range of sources which are formatted according to Harvard referencing style.	Excellent, insightful, and effective use of a carefully selected range of relevant reading. Student has demonstrated consistently accurate application of referencing.	Very good, consistent engagement with a wide range of relevant reading. Consistently accurate application of referencing.	Satisfactory engagement with an appropriate range of reading beyond essential texts. However, referencing may show minor inaccuracies or inconsistencies.	Basic evidence of reading, largely confined within essential texts, but mainly reliant on taught elements. Referencing may show inaccuracies and/or inconsistencies.	Inadequate or not addressed, no evidence of reading or engagement with taught elements. Absent or incoherent referencing.
Criterion 5 (15%) Presentation of work: PowerPoint slides are well structured, formatted and designed. Clear presentation that is engaging and well-articulated with effective use of visual aid.	Excellent presentation with PowerPoint slides that are well structured, formatted and designed. The presentation is very engaging and well-articulated with effective use of visual aid.	Very good presentation with PowerPoint slides that are well structured, formatted and designed. The presentation is very engaging and well-articulated with effective use of visual aid.	Satisfactory presentation with PowerPoint slides that are well structured, formatted and designed. The presentation is engaging and well-articulated with effective use of visual aid.	Basic presentation with PowerPoint slides that are well structured, formatted and designed. The presentation is somewhat engaging and well-articulated with effective use of visual aid.	The presentation is extremely disorganised, with much of the content confusingly expressed. Very poor English and/or very inappropriate style.

Assessment criteria/marking rubric for component 2 (2000 words essay = 75% of total mark).

Dimensions	70 – 100% (1 st)	60 – 69% (2:1)	50 – 59% (2:2)	40 – 49% (3 rd)	0 – 39% (Fail)
Criterion 1 (40%) Explanation and discussion about the requirements regarding construction materials selection and how they impact human comfort based on the investigation undertaken for the development case study.	Excellent explanation and discussion about the requirements regarding construction materials selection in relation to their impacts on human comfort, based on the case study evidence.	Very good explanation and discussion about the requirements regarding construction materials selection in relation to their impacts on human comfort based on the case study evidence.	Satisfactory explanation and discussion about the requirements regarding construction material selection in relation to their impacts on human comfort based on the case study evidence.	Basic explanation and discussion about the requirements regarding construction materials selection in relation to their impacts on human comfort based on case study evidence.	Not addressed or inadequately explained and discussed the requirements regarding materials selection requirements with relation to human comfort requirements based on case study evidence.
Criterion 2 (40%) Explanation and discussion about how health and safety regulations impact on the use, storage, and handling of construction materials.	Excellent explanation and discussion about how health and safety regulations impact on the use, storage, and handling of construction materials.	Very good explanation and discussion about how health and safety regulations impact on the use, storage, and handling of construction materials.	Satisfactory explanation and discussion about how health and safety regulations impact on the use, storage, and handling of construction materials.	Basic explanation and discussion about how health and safety regulations impact on the use, storage, and handling of construction materials.	Not addressed or inadequate explanation and discussion about how health and safety regulations impact on the use, storage, and handling of construction materials.
Criterion 3 (10%) Reading and referencing. Illustration of a wide range of sources which are formatted according to Harvard referencing style.	Insightful and effective use of a carefully selected range of relevant reading. Consistently accurate application of referencing.	Consistent engagement with a wide range of relevant reading. Consistently accurate application of referencing.	Engagement with an appropriate range of reading beyond essential texts. Referencing may show minor inaccuracies or inconsistencies.	Evidence of reading, largely confined to essential texts, but mainly reliant on taught elements. Referencing may show inaccuracies and/or inconsistencies.	Poor engagement with essential texts and no evidence of wider reading. Heavily reliant on taught elements. Inconsistent and weak use of referencing.
Criterion 4 (10%) Presentation of work, essay is well structured, formatted and designed.	Excellent presentation of work that is coherently structured and clearly expressed throughout.	Very good presentation of work that is well structured, formatted and clearly expressed.	Work is structured in a largely coherent manner and is for the most part clearly expressed.	Ordered presentation in which relevant ideas/ concepts are reasonably expressed.	Work is extremely disorganised, with much of the content confusingly expressed. Very poor English.

Learning Outcomes

This assessment will enable you to demonstrate in full or in part the following learning outcomes:

Component 1	LO 1	Understanding of construction technology concepts and techniques to include substructure and superstructure.
	LO 2	Understanding the key features and design elements of a building substructure and superstructure.
	LO 3	Knowledge of the material environmental profiling and typical lifecycle assessment for materials considerations.
Component 2	LO4	Understanding of material selection requirements with relation to human comfort requirements based on case study evidence.
	LO5	Knowledge of how health and safety regulations impact on the use, storage, and handling of construction materials.

Referencing Requirements

<https://moodle.globalbanking.ac.uk/mod/resource/view.php?id=55354&redirect=1>

Guidance for Online Submission Through Moodle

All assessments should be submitted to the module Moodle site (Assessments tab) by no later than 23:59 on the designated submission date. For guidance on how to upload your work to Moodle, please see:

<https://moodle.globalbanking.ac.uk/mod/resource/view.php?id=55314&redirect=1>

Late Submissions

If you miss a coursework deadline (unless you have arranged an approved extension), the following penalties will apply:

- Work handed in after the deadline, but before the cut-off date (usually one week later), will be given a maximum score of 40 (pass mark);
- Work handed in after the cut-off date will be marked zero (fail).

How to Arrange an Extension

Contact your Student Success Tutor at GBS to request an extension in advance of the coursework deadline. You should provide a valid reason for requesting an extension, e.g. illness, and you must support your claim with evidence.

The normal extension period is a week, anything more than a week must be applied for and approved by BSU as Exceptional Circumstances (see section below).

Exceptional Circumstances

<https://www.bathspa.ac.uk/media/bathspaacuk/about-us/policies/academic-and-student/Exceptional-Circumstances-Policy.pdf>

Academic Misconduct

Academic Integrity is essential for the successful completion of your studies.

If you do not understand how to properly reference your work you risk accidentally committing academic misconduct, such as plagiarism, collusion or cheating. This may result in you failing an assignment or a module. Repeated academic misconduct can lead to more serious consequences.

All student work submitted at GBS is thoroughly checked by anti-plagiarism software to ensure it is your own work and not the work of others.

[Click here to go to our Academic Integrity course](#) to learn more about this important topic and how you can avoid academic misconduct.