



Edexcel BTEC HND/HNC in Construction/Civil Engineering Assignment

Notes to Learners

- All main questions and sub-questions for Pass [P] criteria are compulsory.
- Take care and read all the questions.
- Present your work in a clean, tidy and precise manner, with the aid of tables/diagrams, etc. if you think necessary.
- Please bear in mind though a very long answer may not be very good whereas a short, concise and well expressed answer may do the job far better.
- For questions that require computation, you should include all the steps and calculations that your answer derived from.
- Make reasonable assumptions with explanations as appropriate.
- Submit your assignment by hand to CPE direct for acknowledgement of receipt.
- Do NOT commit plagiarism.

Assignment Submission

When you submit your assignment, please ensure to include the following:

- Assignment marking sheet and assignment cover sheet with all the required information, such as your full name, student number, module/unit title, code/number, assignment number, submission date and your signature, including all the previously marked sheet(s) for re-submission (if any); one marking sheet and cover sheet separately for each assignment submission
- Table of content (if applicable)
- Your numbered assignment answers
- Your answers to all the specified questions and sub-questions, including re-submission
- List of references, and in-text referencing as appropriate
- Keep a separate copy of all submissions for your custody
- Submit your assignment in hard copy on or before the specified due date(s) listed on Submission Schedule.
- If there is more than one assignment in a module, each assignment must be bounded and submitted separately, do not submit combined assignments.

Format and Presentation

Structure:	Report form that would be written in sentences for the most part
Paper:	A4 in portrait except over-sized tables/charts/diagrams/illustrations/appendices
Font:	Word-processed in Arial or Times New Roman 12
Space:	Single line spacing
Margin:	Justified all around; Top & bottom margin approx. 1.75 cm, left margin 2.25 cm, right margin 2 cm
Binding:	Staple your assignment in the top left hand corner
Page number:	On the bottom right hand corner
Each sub-question:	About 4 pages depending upon the subject



Unit 20: Construction Methods & Design Solutions

Assignment 1

1. The Purpose of This Course Assignment

On successful completion of this course assignment, students will be able to:

- a) Understand the current construction issues and practices.
- b) Understand the modern methods of construction.

2. Scenario Outline

Four Dragons Hotel Services Company Limited (“Four Dragons”) is a large hotel chain in the U.S.A. Four Dragons have a strategy of developing a hotel line in Hong Kong but their senior personnel have no experience in Hong Kong hotel design & construction.

The Board of Four Dragons (“the Client”) intends to open two hotels located in Kowloon District and New Territories District respectively. These hotels consist of:

- 27-storey of hotel rooms.
- 1 level of 3.5m high basement.
- Save energy building services installation.
- Good appearance facades.

3. Tasks

Assume that you have been appointed as the design and construction consultant to the Client. Your role is to produce a comprehensive and exhaustive development proposal to the Client describing the current construction methods & design and advising on the most appropriate construction method for the above development project.

The development proposal should include:

1. Analyse the key construction issues that Client has to consider in selecting an appropriate foundation system for the hotel construction .(P 1.1)



2. Explain how will these construction issues affect your selection of an appropriate foundation system and draw an A-3 size drawing showing details of piled foundation system including the lowest slab of the hotel. (P1.2)
3. As one of the hotel projects will be located in the New Territories where greenfield and brownfield developments are both available for the client's consideration. Describe the nature, advantage and disadvantage of both development types. (P1.3)
4. The other hotel project will be located in the commercial centre of Kowloon District where an existing vacant three star ranking hotel and a cleared site will be available for both development and redevelopment. Compare the new development and redevelopment project types. List out the advantages and disadvantages of each type. (P1.4)
5. The Client heard that modern methods of construction is widely used in Hong Kong and would like to know more if this can be used in the hotel development projects.
 - (a) Discuss four types of modern methods of construction for the Client's consideration. (P2.1)
 - (b) Other than discussing modern methods of construction, the Client would like to know how modern methods of construction affect the traditional design process. (P2.2)

-- End of Assignment 1 --