



**PROGRAM** : NATIONAL DIPLOMA  
*ENGINEERING: BUILDING*

**SUBJECT** : **CONSTRUCTION MANAGEMENT 1**

**CODE** : **CONM 111**

**DATE** : SUMMER EXAMINATION 2015  
13 NOVEMBER 2015

**DURATION** : (SESSION 1) 08:30 - 11:30

**WEIGHT** : 50: 50

**TOTAL MARKS** : 118

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**ASSESSOR** : M.W.NKOMO

**MODERATOR** : DR.I MUSONDA 2297

**NUMBER OF PAGES** : 3 PAGES

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**INSTRUCTIONS** : ANSWER THE QUESTIONS IN SEQUENCE

**REQUIREMENTS** : ANSWER BOOK

**INSTRUCTION TO CANDIDATES:**

PLEASE ANSWER ALL THE QUESTIONS IN **SEQUENCE**

**QUESTION 1**

1.1 Moleba and Thabo decide to form a partnership, of a small and medium contractor to work with Power Construction Company in a joint venture. Outline and describe five types of partners, which are likely to be formed by Moleba and his partners. (10)

1.2 Outline any six duties of Bargaining Council in relation to Construction in South Africa. (6)

1.3 Define the following terminologies, which will be encountered by Moleba and Thabo, during the execution of the project.

1.3.1 Construction Project Management

1.3.2 Construction Management (6)

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**[22]**

**QUESTION 2**

2.1 Within the first week of your business the government of South Africa approaches you to act as the principal agent for a new train station that will be built in Cape Town.

However, the Director General of Public works requires your company to give them an outline of the tendering procedure that will be used in obtaining the work. Describe in detail the tendering procedure that you will follow. (10)

2.2 Outline and discuss the methods which the client can use to select the best contractor to undertake the new train station project. (10)

2.3 Outline and describe the various possible contract documents that can be used in the construction of a new train station. (10)

2.4 Discuss the following types of tendering methods commonly used for obtaining construction work in the South African construction industry and outline two disadvantage of **EACH**

2.4.1 Selective Tendering

2.4.2 Open Tendering (10)

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**[40]**

### **QUESTION 3**

- 3.1 Illustrate the production system with the aid of an Organogram. (5)
- 3.2 Discuss how work environment will affect productivity in the project in which, Power Construction Company is currently working on. (5)
- 3.3 Outline and discuss the different types of production. (6)

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**[16]**

### **QUESTION 4**

- 4.1 Briefly describe what work study is. (5)
- 4.2 Outline the general procedure for conducting a work measurement. (6)
- 4.3 Differentiate between work measurement and method study. (4)

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**[15]**

### **QUESTION 5**

- 5.1 Outline five problems that are encountered by subcontractors in this project. (5)
- 5.2 Outline and discuss two types of sub-contractors. (6)
- 5.3 Describe a logical sequence that need to be followed in selecting or recruiting top level employees in a construction firm. (14)

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**[25]**

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**TOTAL: 118**