



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF ENGINEERING AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS FOR THE DIPLOMA IN CONSTRUCTION  
MANAGEMENT (TVET)**

**2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER 2022/2023 ACADEMIC YEAR**

**CENTRE: MAIN CAMPUS**

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**COURSE CODE: TDC 2226**

**COURSE TITLE: CONSTRUCTION PROJECT QUALITY MANAGEMENT II**

**EXAM VENUE:**

**STREAM: Dip CONSTRUCTION MGT**

**DATE: ../12/2023**

**EXAM SESSION:**

**DURATION: 2 HOURS**

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**Instructions**

- 1. Answer question 1 (Compulsory) and ANY other three questions**
- 2. Candidates are advised not to write on question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**

### **QUESTION ONE (40 Marks)**

- a) State the seven principles of quality management. (3.5 Marks)
- b) What are benefits of business committed to quality management standards? (5 Marks)
- c) Clay soils can be very nasty, outline the process of constructing foundations in these kinds of soils to avoid cracks and differential settlements. (7 Marks)
- d) State the process of setting out a building. (6 Marks)
- e) State four Quality control Aids on a construction site. (4 Marks)
- f) Mention seven stakeholders in a construction project quality control (3.5 Marks)
- g) What are common requirements of quality control in the following materials in construction of a concrete structure? (11 Marks)
  - Quality of water
  - Cement
  - Aggregate
  - Sand

### **QUESTION TWO (20 Marks)**

- a) State seven basic quality tools (7 Marks)
- b) Give five fundamental principles that underpin codes of conduct ; (4 Marks)
- c) What are work ethics? (4 Marks)
- d) List examples of common ethics organizations may establish in work places (5 Marks)

### **QUESTION THREE (20 Marks)**

- a) Explain the following documents;
  - i. Local Purchase Order (LPO). (6 Marks)
  - ii. What is the difference between the Bill of Quantity and Bill of Material? (8 Marks)
  - iii. What is a site order book? (3 Marks)
- b) What is an environmental impact clearance? (3 Marks)

### **QUESTION FOUR (20 Marks)**

- a) What are General conditions in contract documentation? (6 Marks)
- b) What is work schedule? (4 Marks)
- c) What are technical specifications? (5Marks)
- d) What is completion certificate? (5 Marks)

### **QUESTION FIVE (20 Marks)**

- a) What are four steps of handling complaints? (8 Marks)
- b) State quality control procedures in construction industry(6 Marks)
- c) What is quality Control? (3 Marks)
- d) What is quality assurance? (3 Marks)

**QUESTION SIX (20 Marks)**

- a) What is methodology? And what should it include? (10 Marks)
- b) State 4 factors determining choice of a project. (4 Marks)
- c) What is project evaluation methodology? (6 Marks)

END