

#### 071906T4AEN

### Agricultural Engineering Level 6 ENG/OS/AGR/CR/09/6/

And Vocational College

Date: 05.08.2025 10:39 AM

### Manage Agricultural Engineering and Related Project July /August 2025

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TVET CURRICULUM DEVELOPMENT,
ASSESSMENT AND CERTIFICATION

COUNCIL

# TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

And Vocational College
Date: 05.08.2025 10:39 AM

#### WRITTEN ASSESSMENT

Time: 3 HOURS

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### INSTRUCT CAND IDATE Printed By: h Technical And Vocational Chap

- 1. Date: The sections: A and B.
  - Printed By Technical And Vocational College
- 2. Attempt ALL questions in section A. Quesotiaoten: OF WELDVIE : a(al 2 n) is COMPULSARY and any Other TWO (2) questions in section B.
- 3. Marks for each question are indicated in the brackets.
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- 4. Candidates are provided of with a slep aralle answer booklet
- 5. Do not write on the question paper.

This paper consists of FOUR (4) printed pages

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Date: 05.08.2025 **Gand id ates should check the question paper to ascertain that all** pages are printed as indicated and that no questions are missing.

(3 Marks)



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#### **SECTION A (40 MARKS)**

#### Answer ALL the questions in this section.

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#### <sup>1</sup> OS <sup>3</sup>E CMTION A (40 MARKS)

- 1. A project manager has to play various roles during his tenure. Outline THREE challenges a project manager may face while performing the roles. (3 Marks)
- 2. Many off the prilitare result reither in a fosture before completion or create problems.

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  List FOUR reasons that can result into project failure before completion. (4 Marks)
- 3. As a manager implementing a new project, your rorganic Color Date: 05.08.2025 10:39 AM project may not be having all the required skilled personnel. OulineTHREE advantages of outsourcing skilled personnel from other organizations. (3 Marks)
- A feasibility study is an investigation carried out during planning to determine the
  potential outcome or viability of a project. State FOUR reasons why one should carry
  out feasibility study. (4 Marks)
- 5. Records are written documents which are related to the activities of the project, kept for FO U Ral Bern effect of the achievement of project objectives.

  Date: 05.08.2025 10:39 AM (4 Marks)
- 6. Project evaluation is an assessment of the project during the course of implementation.

  Outline FOUR reasons for carrying out project evaluations Technical And V (4 a Monar ks) lege
- 7. Reporting refers to pulling together the data collected, destroined the Mindings in light of the questions the evaluation was originally designed to address, and disseminating the findings to projecters: State of HREE reasons why it is necessary.

  (3 Marks)
- 8. The success of a project is the ultimate goal of donors and project implementers. Outline THREE parameters that one would use to judge the atteam 5a general trun at project is successful.
- 9. An organization underta-kin-negl-reach give learning open of earth hire of a project manager. Outline FOUR duties that The deleporto of the control of th
- 10. Human resource management is one of the key responsibilities of Agricultural project management. Outline FOUR considerations you would make as a manager when delegating Printed By Technical And Vocational College

  Date: duties to project staff. (4 Marks)

11. Project organization structure refers to the classification of workers based on their functional roles and departments. Outline FOUR factors considered in choosing a project organization structure. (4 Marks)

#### Pinted By. And 60 MARK Se

## Attempt ques $t^2o^4n^2T^2W^2E^2E^2VE^2(1^2)$ COMPULSARY and any other two Questions in this section

12. Agri-Tech Solutions, an innovative agricultural development company, launched a Printed By: Technical And Vocational College transformative project aimed at enhancing irrigation systems for smallholder farmers Date: 05.08.2025 10:39 AM in the semi-arid regions. The primary objective of the initiative was to increase food security and improve crop productivity through the a solar-powered Date: 05.08.2025 10:39 AM

drip irrigation system, which promised efficient water use and continuous farming potential. The project was designed in response to persistent challenges in the region, including unpredictable rainfall patterns, prolonged droughts, and low agricultural output that often led to food shortages and economic instability among rural communities. By introducing renewable energy solutions, the project also aimed to promote sustainable farming practices and reduce dependency on rain-fed agriculture.

promote sustainable farming practices and reduce dependency on rain-fed agriculture. Printed By: Technical And Vocational College

Date: 05.0 The estination of the target community. The project was funded by an international donor, which imposed the need for strict adherence to project timelines, reporting requirements, and budget limitations. Successing the period of the second of

Date: 05.08.2025 10:39 AM risk management, stakeholder coordination, and ongoing monitoring and evaluation to ensure both short-term impact and long-term sustainability.

Pinted By. Technical And Vocational Colege expected of a project manager in this project. Date: 05.08.2025 10:39 AM

Printed By Technical And V(6al anks) lege

- b. Describe FOUR models of training that will be alpostical when training the farmers involved. (4 Marks)
- c. Discuss FIVE in Proposed
  Date: 05.08.2025 10:39 AM
  management. (10 Marks)
- 13. A project budget is a detailed financial plan that outlines the estimated costs

Pirited By it he all the tasks and cactivities required to complete a project.

Date: 05.08.202a. 10: Explain FIVE importance of a budget in Project management. (10 Marks)

- b. Outline FIVE steps in preparing a project budget. (5 Marks)
- c. Agricultural project activities require funding to facilitate the various processes. State FIVE sources of funds a manager can use to finance the projects.
   (5 Marks)

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14. The project Life by crs to his tages of activities that a project undergoes to completion. ate: 05.08.2025 10:39 AM

a. Outline FIVE characteristics of a good project for implementation.

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b. Explain FIVE major phases of project implementation
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(5 Marks)

(10 Marks)

c. Describe FIVE characteristics of a good project manager. (5 Marks)

15. The project life cycle refers to stages of activities that a ergoes to completion.

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a. Explain the five major phases of project implementation (10 Marks)

b. Agriculture Project management requires various functional skills throughout the project lifecycle. Explain FIVE of such skills. (10 Marks)