



ZIMBABWE

**MINISTRY OF HIGHER AND TERTIARY EDUCATION,
INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT**

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

PUBLIC HEALTH MONITORING AND EVALUATION

SUBJECT: Project Management

PAPER NO: 643/23/M04

DURATION: 3 hours

OCTOBER/NOVEMBER 2024 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

- 1. Do not write on the question paper.**
- 2. Do not write your name on the answer booklet.**
- 3. Answer any five (5) questions.**

This paper consists of 3 printed pages.

PAPER NO: 643/23/M04 – PROJECT MANAGEMENT

QUESTION 1

a) Define the following terms with reference to project management:

- i) Risk
- ii) Issues
- iii) Milestones
- iv) Task
- v) Deliverables

(10 marks)

b) Highlight any five (5) characteristics of a project.

(10 marks)

QUESTION 2

a) Illustrate the Gantt chart and highlight its functions.

(10 marks)

b) Explore on the relevance/benefits of a Gantt chart in project management.

(10 marks)

QUESTION 3

Write brief notes on the five (5) functions of project management,

(20 marks)

QUESTION 4

Evaluate five (5) benefits of planning in project management.

(20 marks)

QUESTION 5

a) With the aid of clearly labelled diagram describe the triangle of constraints, highlight the relationship that exist among the constraints.

(10 marks)

b) Explain briefly the following budgeting terms:

- i) Rough order magnitude
- ii) Bottom up

(5 marks)

(5 marks)

PAPER NO: 643/23/M04 - PROJECT MANAGEMENT

QUESTION 6

- a) Identifying any five (5) major attributes of a project manager in project management. (10 marks)
- b) Illustrate the project cycle and briefly explain each stage of the cycle. (10 marks)

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NATIONAL DIPLOMA

IN

**PUBLIC HEALTH DISEASE SURVEILLANCE AND MODELLING, PUBLIC HEALTH
MONITORING AND EVALUATION**

MODULE: Health Education and Promotion

PAPER NO: 609/23/M06

DURATION: 3 hours

OCTOBER/NOVEMBER 2024 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

1. Answer any five (5) questions.
2. Do not write on the question paper.
3. Do not write your name on the answer booklet.

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PAPER NO: G09/23/M06 – HEALTH EDUCATION AND PROMOTION

QUESTION 1

a) Define the following terms:

- | | |
|-----------------------|-----------|
| i) Health | (2 marks) |
| ii) Health education | (2 marks) |
| iii) Health promotion | (2 marks) |
| iv) Knowledge gap | (2 marks) |
| v) Community | (2 marks) |

b) Outline any five (5) approaches to health education. (10 marks)

QUESTION 2

The concept of health is multi-dimensional. Delineate the validity of the verdict. (20 marks)

QUESTION 3

Discuss five(5) importance of health education in improving populations health. (20 marks)

QUESTION 4

With the use of relevant examples assess diseases that affect the following groups and how they can be averted in Africa.

- | | |
|-------------|------------|
| a) Children | (10 marks) |
| b) Women | (10 marks) |

QUESTION 5

Analyse the effectiveness of modern communication channels in disseminating health information in Zimbabwe. (20 marks)

PAPER NO: 609/23/M06 – HEALTH EDUCATION AND PROMOTION

QUESTION 6

Assess key strategies that can be utilized in delivering health education to the following setting:

- a) Urban setting (5 marks)
- b) Rural setting (5 marks)
- c) Workplace setting (5 marks)
- d) Educational setting (5 marks)

QUESTION 7

Analyse the view that healthcare is the most important determinant of health.
(10 marks)

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NATIONAL DIPLOMA

IN

PUBLIC HEALTH MONITORING AND EVALUATION

MODULE: Public Health Programme PAPER NO: 643/23/M02
Monitoring

DURATION: 3 Hours

MAY/JUNE 2024 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

1. Answer any five questions.
2. Do not write anything on the question paper.
3. Do not write your name on the answer booklet.

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PAPER NO: 643/23/M02 – PUBLIC HEALTH PROGRAMME MONITORING

QUESTION 1

- (a) Define the following terms:
- (i) data collection (2 marks)
 - (ii) programme (2 marks)
 - (iii) data clearing (2 marks)
 - (iv) outliers (2 marks)
 - (v) programme monitoring (2 marks)
- (b) Write concise notes on the following types of data analysis
- (i) descriptive statistics (5 marks)
 - (ii) inferential statistics (5 marks)

QUESTION 2

Assess the importance of piloting data collection tools before implementing.
(20 marks)

QUESTION 3

Describe the following data collection tools as used in public health

- (a) Surveys (5 marks)
- (b) Key informant interviews (5 marks)
- (c) Focus group discussion (5 marks)
- (d) Case study (5 marks)

QUESTION 4

Examine any five sampling methods (20 marks)

QUESTION 5

- (a) Briefly explain any 3 factors influencing sample size determination.
(9 marks)
- (b) Describe the steps followed to develop a data collection tool.
(11 marks)

PAPER NO: 643/23/M02 - PUBLIC HEALTH PROGRAMME MONITORING

QUESTION 6

Evaluate any five ethical considerations in selecting study participants for public health program. (20 marks)

QUESTION 7

Delineate any four types of monitoring. (20 marks)

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NATIONAL DIPLOMA

IN

PUBLIC HEALTH MONITORING AND EVALUATION

MODULE: Program Monitoring Systems Design PAPER NO: 643/23/M01

DURATION: 3 Hours

MAY / JUNE 2024 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

- 1. Answer five (5) questions.**
- 2. Do not write anything on the question paper.**
- 3. Do not write your name on the answer booklet.**

This paper consists of 2 printed pages.

QUESTION 1

a) Define the following terms:

- | | | |
|------|----------------------------|-----------|
| i) | Project | (2 marks) |
| ii) | Program | (2 marks) |
| iii) | Survey | (2 marks) |
| iv) | Systems | (2 marks) |
| v) | Key performance indicators | (2 marks) |

b) Outline the purpose of program monitoring. (10 marks)

QUESTION 2

a) State any five (5) data analysis softwares, used to interpret data in monitoring systems. (5 marks)

b) Briefly explain any five (5) factors you would consider when selecting appropriate indicators for measuring programs success. (15 marks)

QUESTION 3

Analyse any five (5) program monitoring systems. (20 marks)

QUESTION 4

Difference between qualitative and quantitative data. (20 marks)

QUESTION 5

Analyse any five (5) ethical consideration in program system design. (20 marks)

QUESTION 6

Analyse the importance of stakeholder engagement in designing program monitoring systems. (20 marks)

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NATIONAL DIPLOMA

IN

ENVIRONMENTAL HEALTH

MODULE: Epidemiology and Biostatistics PAPER NO: 605/23/M15

DURATION: 3 Hours

MAY/JUNE 2024 EXAMINATION

REQUIREMENTS

Non programmable scientific calculator, graph paper and statistical table.

INSTRUCTIONS TO CANDIDATE

- 1. Answer any five questions.**
- 2. Each question carries 20 marks.**
- 3. Do not write your name on the answer booklet.**

This paper consists of 3 printed pages.

PAPER NO: 605/23/M15 – EPIDEMIOLOGY AND BIOSTATISTICS

QUESTION 1

- (a) Define disease screening. (2 marks)
- (b) State and explain four types of disease screening, giving relevant examples. (16 marks)
- (c) What is Screen test validity? (2 marks)

QUESTION 2

- (a) A new medicine for the treatment of a disease has been found and is due to be randomly tried in your area of operation. Demonstrate how you would design such a study. (10 marks)
- (b) Explain any five major achievements of epidemiology. (10 marks)

QUESTION 3

Discuss the importance and benefits of understanding patterns and trends of a diseases. (20 marks)

QUESTION 4

The following data relates to percentage scores of 10 students who do epidemiology and biostatistics.

40 40 50 31 62 63 62 63 62 40 85 40

Calculate the following:-

- (a) Mean score (3 marks)
- (b) Mode (1 mark)
- (c) median (4 marks)
- (d) variance (8 marks)
- (e) Standard deviation (4 marks)

QUESTION 5

Calculate the odds ratio for a case study of 44 cases and 237 controls for lung cancer with 28 reported smokers diagnosed with lung cancer and 29 smokers without lung cancer and explain your results. (20 marks)

QUESTION 6

- (a) People were asked their age as they entered a health center. Their ages were:-

18,25,28,42,54,,21,17,33,15,26,31,20,21

Construct a stem and leaf diagram to show the data collected.

(10 marks)

- (b) The following table 1 shows data of the weekly cholera cases from a disease surveillance

Week	1	2	3	4	5	6	7	8
Cases	5	12	10	10	8	10	10	10

Represent the data suing a line graph.

(10 marks)

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NATIONAL DIPLOMA

IN

PUBLIC HEALTH MONITORING AND EVALUATION

MODULE: Project Management

PAPER NO: 643/23/M04

DURATION: 3 Hours

JUNE 2026 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATES

1. Answer any five (5) questions.
2. Do not write anything on the question paper.
3. Do not write your name on the answer Booklet.

This paper consists of 3 printed pages.



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QUESTION 1

- a) Define the Gantt Chart. (2 marks)
- b) Highlight five (5) functions of Gantt Chart as applied in project management. (10 marks)
- c) Outline four (4) benefits of a Gantt Chart in project management. (8 marks)

QUESTION 2

Evaluate five (5) project management functions, use typical examples from your field of practice. (20 marks)

QUESTION 3

- a) Define project. (2 marks)
- b) With aid of a clearly labelled diagram describe the project life cycle or phases highlighting major activities at each phase. (18 marks)

QUESTION 4

- a) Write concise note on the following:
 - i) Project -kickoff (2 marks)
 - ii) Trade-offs (2 marks)
 - iii) Resource levelling (2 marks)
 - iv) Resource allocation (2 marks)
 - v) Business value outcomes (2 marks)
- b) Evaluate five (5) importance of project budgeting in project management. (10 marks)

QUESTION 5

- a) Explain the following project management methodologies:
 - i) Agile methodology (5 marks)
 - ii) Lean (5 marks)
- b) Examine five (5) functions of project software in scheduling and financial management. (10 marks)

QUESTION 6

“Failure to plan is planning to fail”, with reference to project management analyse five (5) benefits of planning. (20 marks)

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NATIONAL DIPLOMA

IN

PUBLIC HEALTH MONITORING AND EVALUATION

**MODULE: Public Health Program
Monitoring**

PAPER NO: 643/23/M02

DURATION: 3 Hours

JUNE 2026 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

- 1. Answer any five questions.**
- 2. Do not write anything on the question paper.**
- 3. Do not write your name on the answer booklet.**

QUESTION 1

(a) Define the following terms: -

(i) Sampling (2 marks)

(ii) Monitoring (2 marks)

(iii) Program (2 marks)

(iv) Piloting (2 marks)

(v) Survey (2 marks)

(b) Write short notes on the following sampling techniques as used in public health

(i) Simple random sampling (2 marks)

(ii) Snowball sampling (2 marks)

(iii) Judgemental sampling (2 marks)

(iv) Multistage sampling (2 marks)

(v) Expert sampling (2 marks)

QUESTION 2

Describe any four (4) types of monitoring utilised in public health programs. (20 marks)

QUESTION 3

A government funded public health survey aims to investigate the prevalence of HIV/AIDS among marginalised communities. Assess five ethical consideration to be observed during the survey. (20 marks)

QUESTION 4

"Qualitative and quantitative research methods: two worlds, one truth". Discuss the tension and synergies between these approaches. (20 marks)

QUESTION 5

Analyse 4 importance of piloting data collection tools. (20 marks)

QUESTION 6

- (a) Explain the following types of data analysis
- (i) Descriptive statistics (5 marks)
 - (ii) Inferential statistics (5 marks)
- (b) Highlight any five (5) factors that influence choice of data analysis methods. (10 marks)

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NATIONAL DIPLOMA

IN

PUBLIC HEALTH MONITORING AND EVALUATION

MODULE: Health Survey Methods

PAPER NO: 609/23/M07

DURATION: 3 Hours

JUNE 2026 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

Answer any five (5) questions.

QUESTION 1

- (a) What is program monitoring all about. (5 marks)
- (b) Explain in brief the five (5) major purposes of program evaluation. (15 marks)

QUESTION 2

- (a) Define simple size in research. (2 marks)
- (b) Outline five (5) importance of determining appropriate sample size?. (15 marks)
- (c) Highlight three (3) statistical methods used to determine sample size. (3 marks)

QUESTION 3

- (a) Define the terms?
- (i) survey (2 marks)
 - (ii) sampling (2 marks)
 - (iii) pilot test (2 marks)
 - (iv) hypothesis (2 marks)
 - (v) coding (2 marks)
- (b) Outline any five (5) uses of a health survey. (10 marks)

QUESTION 4

Discuss any five (5) ethical considerations when carrying out a survey. (20 marks)

QUESTION 5

Explain the following data collection methods

- (a) health interviews (5 marks)
- (b) health examination survey (5 marks)
- (c) health records survey (5 marks)
- (d) mailed questionnaire survey (5 marks)

QUESTION 1

- (a) What is program monitoring all about? (5 marks)
- (b) Explain in brief the five (5) major programs of program evaluation. (15 marks)

QUESTION 2

- (a) Define sample size in research. (3 marks)
- (b) Outline five (5) importance of determining appropriate sample size? (15 marks)
- (c) Highlight three (3) statistical methods used to determine sample size. (3 marks)

QUESTION 3

- (a) Define the terms?
- (i) survey (2 marks)
 - (ii) sampling (2 marks)
 - (iii) pilot test (2 marks)
 - (iv) hypothesis (2 marks)
 - (v) coding (2 marks)
- (b) Outline any five (5) uses of a health survey. (10 marks)

QUESTION 4

Discuss any five (5) ethical considerations when carrying out a survey. (20 marks)

QUESTION 5

Explain the following data collection methods

- (a) health interviews (5 marks)
- (b) health examination survey (5 marks)
- (c) health records survey (5 marks)
- (d) mailed questionnaire survey (5 marks)

QUESTION 6

- (a) Give three (3) advantages and two disadvantages of the following data collection methods
- (i) Face to face (5 marks)
 - (ii) Telephone interviews (5 marks)
 - (iii) Online surveys (5 marks)
- (b) Outline five (5) characteristics of good and standard survey questions. (5 marks)

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NATIONAL DIPLOMA

IN

PUBLIC HEALTH MONITORING AND EVALUATION

MODULE: Public Health Program Evaluation

PAPER NO: 643/23/M03

DURATION: 3 Hours

JUNE 2026 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

1. Answer any five (5) questions.
2. Each question carries 20 marks.
3. Begin your answer on fresh page.

PAPER NO: 643/23/M03 - PUBLIC HEALTH PROGRAM EVALUATION

QUESTION 1

Discuss any five (5) importance of public health evaluation in improving population health outcome. (20 marks)

QUESTION 2

Evaluate any five (5) roles of stakeholders in public health evaluation. (20 marks)

QUESTION 3

Examine any five (5) importances of visual aids in communicating evaluation results. (20 marks)

QUESTION 4

Describe five (5) data collection methods used in evaluating public health programs. (20 marks)

QUESTION 5

Explain any five (5) evaluation methods used in public health. (20 marks)

QUESTION 6

Reflect on any five (5) challenges that may hinder the use of evaluation results in decision making. (20 marks)

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IN

PUBLIC HEALTH MONITORING AND EVALUATION

MODULE: Program Monitoring Systems Design

PAPER NO: 643/23/M01

DURATION: 3 hours

JUNE 2026 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

1. Answer any five (5) questions.
2. Do not write your name on the answer booklet.
3. Do not write anything on the question paper.

This paper consists of 3 printed page.



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QUESTION 1

a) Define the following terms:

- | | | |
|------|----------------------------|-----------|
| i) | Program | (2 marks) |
| ii) | Project | (2 marks) |
| iii) | Key performance indicators | (2 marks) |
| iv) | Evaluation | (2 marks) |
| v) | Stakeholders | (2 marks) |

b) Outline any five (5) importance of feedback mechanisms in a monitoring system. (10 marks)

QUESTION 2

Discuss the significance of program monitoring in meeting organisational goals and objectives. (20 marks)

QUESTION 3

- a) Differentiate between process, outcome and impact monitoring systems. (10 marks)
- b) Explain any five (5) strategies that can be implemented to ensure data quality. (10 marks)

QUESTION 4

Describe any five (5) potential barriers to effective data collection in system design. (20 marks)

QUESTION 5

Explain any five (5) data collection tools that can be utilised for program monitoring. (20 marks)

QUESTION 6

- a) Outline any five (5) importance of technology in supporting effective implementation of a program monitoring system. (10 marks)
- b) Briefly explain any five (5) ethical considerations in designing and implementing a project. (10 marks)

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**IN
PUBLIC HEALTH MONITORING AND EVALUATION**

MODULE: Public Health Program Evaluation

PAPER NO: 643/23/M03

DURATION: 3 Hours

NOVEMBER/DECEMBER 2025 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

- 1. Answer any five (5) questions of your choice.**
- 2. Do not write anything on the question paper.**
- 3. Do not write your name on the answer booklet.**

QUESTION 1

- a) Define the following terms
- i) Evaluation (2 marks)
 - ii) Program (2 marks)
 - iii) Stakeholder (2 marks)
 - iv) Community sensitization (2 marks)
 - v) Monitoring (2 marks)
- b) Corroborate any five (5) principles of evaluation. (10 marks)

QUESTION 2

Evaluate any five (5) significance of public health program evaluation in enhancing population health outcomes. (20 marks)

QUESTION 3

Discuss any five (5) distinct types of evaluation methodologies employed in the assessment of public health program, and how do they contribute to the overall evaluation framework. (20 marks)

QUESTION 4

- a) Articulate any five (5) considerations for using visual aids to communicate complex results. (10 marks)
- b) Explain any five (5) ethical considerations that may apply in public health evaluation. (10 marks)

QUESTION 5

A non -profit organisation is implementing a program to improve access to healthcare for rural communities. Evaluate the suitability of four (4) different evaluation frameworks for the program. (20 marks)

PAPER NO: 643/23M03- PUBLIC HEALTH PROGRAM EVALAUTION

QUESTION 6

Analyse any five data collection tools that can be used in public health evaluation.

(20 marks)

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IN

PUBLIC HEALTH MONITORING AND EVALUATION

MODULE: Project Management

PAPER NO: 643/23/M04

DURATION: 3 Hours

NOVEMBER/ DECEMBER 2025 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

1. Answer any five (5) questions
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This paper consists of 2 printed pages.

PAPER NO: 643/23/M04 PROJECT MANAGEMENT

QUESTION 1

Analyse five (5) measures of project success in project management. (20 marks)

QUESTION 2

- a) Define project (2 marks)
- b) Examine five (5) characteristics of a project (15 marks)
- c) Highlight three (3) methods by which projects can be classified (3 marks)

QUESTION 3

- a) What are the duties of the following project management stakeholders
 - i) Project team (2 marks)
 - ii) Project sponsor (2 marks)
 - iii) Project manager (3 marks)
 - iv) Customer/end user (2 marks)
- b) Write brief notes on the following project management methodologies
 - i) Theory of constraints (5 marks)
 - ii) Agile (5 marks)

QUESTION 4

Examine any five (5) major roles of project management as a field of practice. (20marks)

QUESTION 5

- a) With the aid of a clearly labelled diagram describe the triangle of constraints, highlighting the inter-link amongst the four (4) constraints. (10marks)
- b) Analyse any five (5) major duties of a project manager in relation to project management. (10marks)

QUESTION 6

- a) Outline any five (5) roles done during the project closure phase. (10 marks)
- b) Highlight five (5) roles of project execution phase of a project management cycle. (10 marks)

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NATIONAL DIPLOMA

IN

PUBLIC HEALTH MONITORING AN EVALUATION

MODULE: Public Health Programme Monitoring PAPER NO: 643/23/M02

DURATION: 3 Hours

NOVEMBER/DECEMBER 2025 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

Answer any five (5) questions.

QUESTION 1

(a) Define the following terms

- (i) program (2 marks)
- (ii) monitoring (2 marks)
- (iii) outliers (2 marks)
- (iv) sample (2 marks)
- (v) pilot test (2 marks)

(b) Explain any five (5) factors influencing sample size determination. (10 marks)

QUESTION 2

(a) Outline any five (5) different sampling methods . (10 marks)

(b) Briefly explain any five components of a monitoring plan. (10 marks)

QUESTION 3

Describe any five (5) data collection methods that can be utilised in public health. (20 marks)

QUESTION 4

(a) Describe the following types of data analysis

- (i) descriptive (5 marks)
- (ii) inferential (5 marks)

(b) Articulate any five (5) importance of community sensitisation in data collection. (10 marks)

QUESTION 5

Examine any five (5) data cleaning techniques that can be employed to ensure data quality, integrity and readiness for analysis. (20 marks)

QUESTION 6

Write concise notes on any four (4) types of monitoring. (20 marks)