

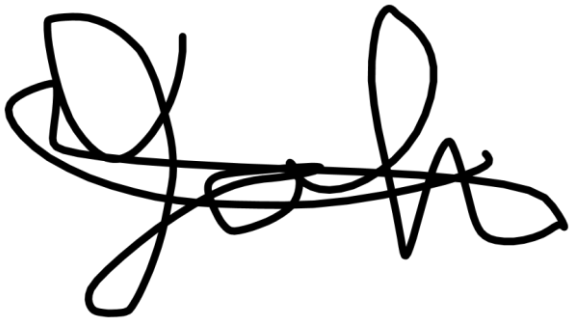
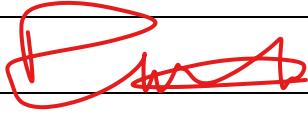
| Occupational Certificate: Software Engineer (NQF5)<br>Fundamentals of Project Management in relation to Software Engineering (FPMSE) |                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Curriculum Code                                                                                                                      | 251201001                                                                                                                    |
| SAQA Qualification ID                                                                                                                | 119458                                                                                                                       |
| Intake / year                                                                                                                        | 1-2025                                                                                                                       |
| Assessment Name                                                                                                                      | Summative Assessment                                                                                                         |
| Module NQF Level                                                                                                                     | 5                                                                                                                            |
| Credits                                                                                                                              | 5                                                                                                                            |
| Open date and time                                                                                                                   | 21 November 2025 <ul style="list-style-type: none"><li>• <b>Section A: 17:15</b></li><li>• <b>Section B: 18:45</b></li></ul> |
| Close date and time                                                                                                                  | 21 November 2025 <ul style="list-style-type: none"><li>• <b>Section A: 18:45</b></li><li>• <b>Section B: 20:15</b></li></ul> |
| Assessment Total Marks                                                                                                               | Section A = 50 (20% of total mark percentage)<br>Section B = 30 (30% of total mark percentage)                               |
| Pass percentage                                                                                                                      | 65%                                                                                                                          |

| Lecturer Information |                    |
|----------------------|--------------------|
| Lecturer             | Preciouse Nkabinde |
| Lecturer E-mail      | PreciouseN@aie.ac  |

### IMPORTANT NOTICE

**Before submitting your assessment, please ensure that it is signed and that all your personal details are accurately filled in the designated space below (Section in red). Work will not be accepted unless the required sections below are fully completed prior to submission, resulting in a 0% grade for this assessment.**

**The signature must be your valid handwritten signature and NOT your name and surname typed in the space provided.**

|                                    |                                                                                     |              |            |
|------------------------------------|-------------------------------------------------------------------------------------|--------------|------------|
| <b>Student Number:</b>             | 461476                                                                              |              |            |
| <b>Student name and surname:</b>   | John Herbst                                                                         | <b>Date:</b> | 11/21/2025 |
| <b>Student cell phone number:</b>  | 0604944665                                                                          |              |            |
| <b>Student Signature:</b>          |   |              |            |
|                                    |                                                                                     |              |            |
| <b>Lecturer name and surname:</b>  | Precious Nkabinde                                                                   | <b>Date:</b> | 04/12/2025 |
| <b>Lecturer Signature:</b>         |  |              |            |
| <b>Assessor name and surname:</b>  |                                                                                     | <b>Date:</b> |            |
| <b>Assessor Signature:</b>         |                                                                                     |              |            |
| <b>Moderator name and surname:</b> |                                                                                     | <b>Date:</b> |            |
| <b>Moderator Signature:</b>        |                                                                                     |              |            |

### Instructions to Candidates

1. Read each question carefully.
2. You must answer Section B below the space provided named "STUDENTANSWER". Once completed, the answer sheet, with your answers, must be converted to PDF and uploaded to the student portal. Make sure that all additional information is uploaded in a single Zipped folder.
3. QCTO students who achieve between 55-64% may have a further submission opportunity, subject to the departmental rules.
4. **NO LATE submissions will be accepted. (System will automatically close when due date and time is reached). If you encounter any difficulty with the student portal, immediately take a screenshot, log a ticket (attention support), and attach your assessment to the ticket.**
5. You must follow the departmental formatting guidelines.
6. You must write your name, surname, and student number on your script. A failure to do so will result in your script not being marked.
7. By submitting your answer sheet for marking, you declare the following:
  - a. You are familiar with the AIE's policies on academic dishonesty and plagiarism;
  - b. Your submitted is your own original work. Where you have made use of someone else's work, you have duly referenced such work making using of the APA style of referencing;
  - c. You have not allowed, and will not allow any other student to copy your work; and
  - d. You did not copy the work of another student.
8. Students that are dishonest will be subjected to disciplinary procedures.

### Assessment Objective/s:

The Summative assessment (Section A and B) will cover the following assessment topics:

| No | KM/KT number | KT Description                     |
|----|--------------|------------------------------------|
| 1. | KM04-KT0101  | Fundamentals of Projects           |
| 2. | KM04-KT0102  | Fundamentals of Project Management |

### Scope:

The aim of this module is to provide you with a robust understanding of the core principles of project management as they apply to software engineering projects. By exploring the fundamental aspects of projects and delving into the specifics of project management, you'll be equipped with the knowledge to contribute effectively to software development projects, ensuring they are delivered on time, within budget, and to the required quality standards.

### Technical Aspects:

Please verify that all pages are included when downloading this assessment by checking the page numbers at the bottom of the document.

Ensure the following font and size is used in this assessment

- a. Font: Arial
- b. Size: 12
- c. Font colour: Black

Save and upload the report as a .PDF (**No backgrounds**) with the following naming convention:

- a. Student no\_StudentName\_ StudentSurname\_ ModuleCode\_SA1

### Mark allocation for report

See Mark allocation sheet below

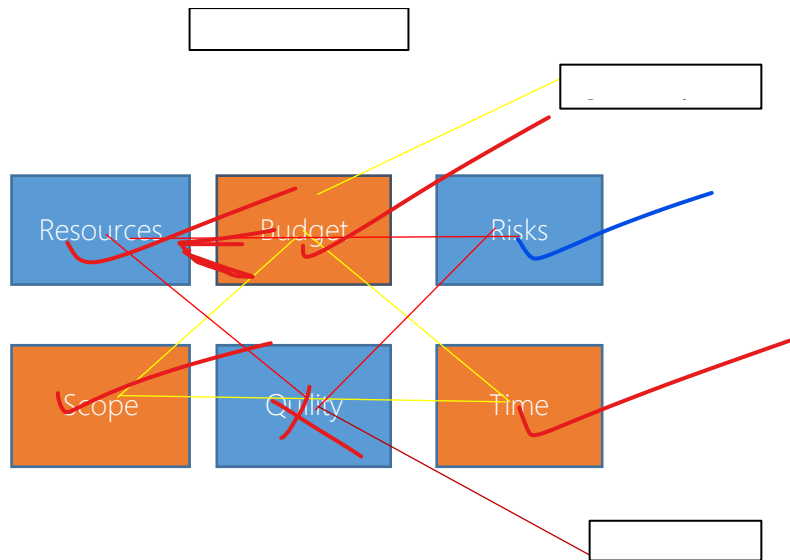
Question 1

(9)

| <i>KM No</i> | <i>KT No</i> | <i>KT Description</i>                                          |
|--------------|--------------|----------------------------------------------------------------|
| <i>04</i>    | <i>0101</i>  | <i>Characteristics of projects or definition of a projects</i> |

- a) With the aid of a sketch illustrate the boundaries, called constraints, project [9] operates within.

### ANSWER



Sketch attempted  
 Structure not accurate  
 Constraints not labelled according to memo (Function/Performance, Cost, Time)

## Question 2

(10)

| <i>KM No</i> | <i>KT No</i> | <i>KT Description</i>      |
|--------------|--------------|----------------------------|
| <b>04</b>    | <b>0102</b>  | <b>History of projects</b> |

a) Identify and discuss the three (3) objectives of a project.

[10]

### ANSWER

Function or performance: The results of a project must satisfy the requirements of the end-user.

Containment of expenditure within budget: In a project you have to plan your expenses to fit the budget of the project and still satisfy the requirements of the end-user.

Time-scale: Your project should be done in the time expected by the end-user. You have to plan accordingly.

✓

Question 3

(5)

| <i>KM No</i> | <i>KT No</i> | <i>KT Description</i>       |
|--------------|--------------|-----------------------------|
| 04           | 0201         | <i>Project team members</i> |

- a) Identify the main responsibilities of a project team member. [5]

**ANSWER**

Project team members should contribute to project overall project objectives,

Provide expertise, work with users to establish and meet different business needs, Complete individual deliverables and lastly document all their work.

- b) Identify the main responsibilities of a project sponsor's. [4]

**ANSWER**

Project sponsors, as said, provide the money for the project and decide the budget for the project. They are typically members of the senior team and have a stake in the outcome. They often help resolve conflicts and remove obstacles.

The answer is partially correct, but:

It does not explicitly include the core responsibility of communicating goals.

It does not include authorizing the project or giving strategic direction.

## Question 4

(2)

| <i>KM No</i> | <i>KT No</i> | <i>KT Description</i>      |
|--------------|--------------|----------------------------|
| <i>04</i>    | <i>0203</i>  | <i>Project constraints</i> |

a) What does the term "Project Scope" mean?

[2]

**ANSWER**

It defines how big the project will be, as all the other needs and goals grow, the scope will grow and vice versa. As the project's scope grows, the project will require more time and money.

| Mark allocation for student |              |              |
|-----------------------------|--------------|--------------|
| Question                    | Maximum Mark | Learner mark |
| Question 1.a                | 9            | 5            |
| Question 2.a                | 10           | 10           |
| Question 3.a                | 5            | 5            |

|               |           |           |
|---------------|-----------|-----------|
| Question 3.b  | 4         | 3         |
| Question 4.a  | 2         | 2         |
|               |           |           |
| <b>Total:</b> | <b>30</b> | <b>25</b> |

### STUDENT ASSESSMENT FEEDBACK

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| <b>Qualification Name:</b>        | <b>Occupational Certificate: Software Engineer (NQF5)</b> |
| <b>Qualification SAQA Number:</b> | <b>119458</b>                                             |

|                         |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| <b>Subject Name:</b>    | <b>Fundamentals of Project Management in relation to Software Engineering</b> |
| <b>Subject Code:</b>    | <b>FPMSE</b>                                                                  |
| <b>Assessment Name:</b> | <b>Summative Assessment</b>                                                   |
| <b>Assessment Code:</b> | <b>FPMSE_SA</b>                                                               |

|                            |                  |          |                          |  |
|----------------------------|------------------|----------|--------------------------|--|
| <b>Assessment Decision</b> | <b>Competent</b> | <b>C</b> | <b>Not yet competent</b> |  |
|----------------------------|------------------|----------|--------------------------|--|

| <b>Feedback report</b>         | <b>1st Attempt</b> |            | <b>2nd Attempt</b> |            |
|--------------------------------|--------------------|------------|--------------------|------------|
|                                | <b>C</b>           | <b>NYC</b> | <b>C</b>           | <b>NYC</b> |
| <b>Unit standard Number(s)</b> |                    |            |                    |            |
| <b>KM04</b>                    |                    |            |                    |            |
| KT0101                         | <b>C</b>           |            |                    |            |
| KT0102                         | <b>C</b>           |            |                    |            |
|                                |                    |            |                    |            |

|                                                               |
|---------------------------------------------------------------|
| <b>General feedback to learner</b>                            |
| <b>Supply comprehensive feedback why learner is found NYC</b> |
|                                                               |
|                                                               |
|                                                               |
|                                                               |
|                                                               |