



QUALIFI

SUCCESS THROUGH LEARNING
RECOGNISED WORLDWIDE

QUALIFI ASSESSMENT DOCUMENT

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| Qualification | Qualifi Level 4 Diploma in Information Technology |
| Qualification No (RQF) | 603/4781/8 |
| Unit Name | Computer Graphics Editing and Database Concepts |
| Unit Reference | 4IT04 |
| No of Credits | 20 Credits |

Introduction

Prior to attempting this coursework assignment, learners must familiarise themselves with the following policies:

- Centre Specification
 - Can be found at <https://qualifi.net/qualifi-level-4-diploma-in-information-technology/>
- Qualifi Quality Assurance Standards
- Qualifi Quality Policy Statement

Plagiarism and Collusion

In submitting the assignment Learner's must complete a statement of authenticity confirming that the work submitted for all tasks is their own. The statement should also include the word count.

Your accredited study centre will direct you to the appropriate software that checks the level of similarity. Qualifi recommends the use of <https://www.turnitin.com> as a part of the assessment.

Plagiarism and collusion are treated very seriously. Plagiarism involves presenting work, excerpts, ideas or passages of another author without appropriate referencing and attribution.

Collusion occurs when two or more learners submit work which is so alike in ideas, content, wording and/or structure that the similarity goes beyond what might have been mere coincidence

Please familiarise yourself on Qualifi's Malpractice and Maladministration policy, where you can find further information

Referencing

A professional approach to work is expected from all learners. Learners must therefore identify and acknowledge ALL sources/methodologies/applications used.

The learner must use an appropriate referencing system to achieve this. Marks are not awarded for the use of English; however, the learner must express ideas clearly and ensure that appropriate terminology is used to convey accuracy in meaning.

Qualifi recommends using Harvard Style of Referencing throughout your work.

Appendices

You may include appendices to support your work, however appendices must only contain additional supporting information, and must be clearly referenced in your assignment.

You may also include tables, graphs, diagrams, Gantt chart and flowcharts that support the main report should be incorporated into the back of the assignment report that is submitted.

Any published secondary information such as annual reports and company literature, should be referenced in the main text of the assignment, in accordance of Harvard Style Referencing, and referenced at the end of the assignment.

Confidentiality

Where a Learner is using organisational information that deals with sensitive material or issues, they must seek the advice and permission from that organisation about its inclusion.

Where confidentiality is an issue, Learners are advised to anonymise their assignment report so that it cannot be attributed to that particular organisation.

Word Count Policy

Learners must comply with the required word count, within a margin of +10%. These rules exclude the index, headings, tables, images, footnotes, appendices and information contained within references and bibliographies.

When an assessment task requires learners to produce presentation slides with supporting notes, the word count applies to the supporting notes only.

Submission of Assignments

All work to be submitted on the due date as per Centre's advice.

All work must be submitted in a single electronic document (.doc file), or via Turnitin, where applicable.

This should go to the tutor and Centre Manager/Programme Director, plus one hard copy posted to the Centre Manager (if required)

Marking and grades

Qualifi uses a standard marking rubric for all assignments, and you can find the details at the end of this document.

Unless stated elsewhere, Learners must answer all questions in this document.

Assignment Question

Task 1 – 1000 words

Use computer graphic editing techniques to edit photos and create illustrations

1.1: You are required to print your old school photo. Using Photoshop, write the steps to

- 1) Crop and straighten
- 2) Improve lighting and color
- 3) Eliminate distracting elements
- 4) Add creative effects

For the photo to make the photo look nicer? (1.1, 1.2)

1.2: List down the techniques that are used in the following illustration and briefly explain (1.3)



1.3: To animate the above image with steam effect, what are the techniques that you will use? (1.4)

Assessment Criteria

- 1.1. Apply photo editing, retouching and repairing techniques correctly
- 1.2. Use Photoshop correctly to create the required effects
- 1.3. Create illustrations using illustration software tools to the required standard
- 1.4. Analyze techniques to create movement in a graphical environment

Task 2 – 1000 words

Create a database system

2.1: What is 'Relation Database Management Systems' (RDBMS) and how does it differ from 'Database Management Systems' (DBMS)? What categories of data integrity exist in RDBMS? How do they ensure the data integrity? (2.1)

2.2: "ABC hospital has a number of departments, rooms, doctors, nurses, and other staff working. Patients having different conditions visit and get checkup done from the doctors and if necessary they are admitted and discharged after recovering."

- 1) Build an entity-relationship diagram for the above scenario, deriving relations and validating relations using normalization up to third normal form (2.2)
- 2) From the ER diagram in first part, create a database (DB) using 'Data Definition Language' (DDL). Define how would you insert, delete and update records from your 'Doctors' table using 'Data Manipulation Language' (DML) (2.3)

Assessment Criteria

2.1 Define the concept of a relational database

2.2 Build an entity-relationship diagram, deriving relations and validating relations using normalization

2.3 Create a database using Data Definition Language (DDL) and manipulate a database using Data Manipulation Language (DML) that meets the specification

| | Distinguished | Excellent | Good | Proficient | Basic | Marginal | Unacceptable |
|---|--|---|---|---|--|--|--|
| Criteria | 80+ | 70 | 60 | 50 | 40 | 30 | 0 |
| Content (alignment with assessment criteria) | Extensive evaluation and synthesis of ideas; includes substantial original thinking | Comprehensive critical evaluation and synthesis of ideas; includes coherent original thinking | Adequate evaluation and synthesis of key ideas beyond basic descriptions; includes original thinking | Describes main ideas with evidence of evaluation; includes some original thinking | Describes some of the main ideas but omits some concepts; limited evidence of evaluation; confused original thinking | Largely incomplete description of main issues; misses key concepts; no original thinking | Inadequate information or containing information not relevant to the topic |
| | In-depth, detailed and relevant application of theory; expertly integrates literature to support ideas and concept | Clear and relevant application of theory; fully integrates literature to support ideas and concepts | Appropriate application of theory; integrates literature to support ideas and concepts | Adequate application of theory; uses literature to support ideas and concepts | Limited application of theory; refers to literature but may not use it consistently | Confused application of theory; does not use literature for support | Little or no evidence of application of theory and relevant literature |
| Knowledge and Understanding | Extensive depth of understanding and exploration beyond key principles and concepts | Comprehensive knowledge and depth of understanding key principles and concepts | Sound understanding of principles and concepts | Basic Knowledge and understanding of key concepts and principles | Limited and superficial knowledge and understanding of key concepts and principles | Confused or inadequate knowledge and understanding of key concepts and principles | Little or no evidence of knowledge or understanding of key concepts and principles |
| Presentation and Writing Skills | Logical, coherent and polished presentation exceeding expectations at this level; free from errors in mechanics and syntax | Logical, coherent presentation demonstrating mastery; free from errors in mechanics and syntax | Logical structure to presentation; makes few errors in mechanics and syntax which do not prohibit meaning | Orderly presentation; minor errors in mechanics and syntax | Somewhat weak presentation; errors in mechanics and syntax may interfere with meaning | Confused presentation; errors in mechanics and syntax often interfere with meaning | Illogical presentation lacking cohesion; contains significant errors that interfere with meaning |
| Referencing | Advanced use of in-text citation and references | Mastery of in-text citation and referencing | Appropriate use of in-text citation and referencing | Adequate use of in-text citation and referencing | Limited use of in-text citation and referencing | Inadequate use of citation and referencing | Little or no evidence of appropriate referencing or use of source |

Instructor's Comments

Directions:

1. For each of the criteria listed in the first column, circle one box in the corresponding column to the right which best reflects the student's work on this particular assessment activity (e.g., project, presentation, essay).
2. Provide specific feedback to a student about each of the criteria scores he/she earned by writing comments and suggestions for improvement in the last row titled "Instructor's comments."
3. To arrive at a mark, total the boxes and divide by 5 to arrive at final mark.

Example:

| | Distinguished | Excellent | Good | Proficient | Basic | Marginal | Unacceptable |
|-------|---------------|-----------|-------|------------|-------|----------|--------------|
| Range | 80-100 | 70-79 | 60-69 | 50-59 | 40-49 | 35-39 | 0-34 |

| Criteria | Score |
|--------------------------------------|--------------------------|
| Content | 50 |
| Application of Theory and Literature | 40 |
| Knowledge and Understanding | 50 |
| Presentation/Writing Skills | 40 |
| Referencing | 40 |
| Total Score | 220/5 = 44, Basic |



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