Unit 2 Creating Systems to Manage Information – 2019

BTEC

Level 3 National in Information Technology

Part B
Additional Sample Assessment Marking Guidance

Contents

Introduction

This solution provided is only *one* example. Candidates could have approached it several different ways. It is important to read this guidance with each activity. If you are in any doubt whether the method a candidate has used is valid, please refer to your team leader. Do not assume a method that differs from solution is incorrect.

Activity 6 – Interface and functionality (70 mins)
How examiners must approach marking this activity

Trait 1	This is all about how the forms look, how easy they would be to use and how relevant they are to the scenario and tasks

This is all about how the forms look, how easy they would be to use and how relevant they are to the scenario and tasks
- Automation and error trapping do not come into this, that is trait 3.
- It is the appearance and ease of use that is assessed

Supplier Form
- Sensible title
- Instruction on how to use
- SupplierID disabled
- Labels useful
- Field widths appropriate
- Layout good

Product Deliveries Form
- Sensible title
- Instructions on how to use
- Can select the product
- Can input the number delivered
- These existing fields present:
  - costPrice
  - sellingPrice
  - numberInStock
- These generated fields present (not looking at the calculations themselves in this trait
  - new number in stock
  - overall product cost
  - overall sales value
- All fields disabled other than the product combo box and the number delivered
- Labels useful
- Field widths appropriate
- Layout good

Band	Comments

1	• Do not reflect their purpose
	• Are mostly/all default
	• Are not user friendly:
	  ○ default titles, labels and field widths
	  ○ no data input aids
	  ○ no disabled fields
	  ○ house style does not exist
	  ○ layout poor

2	• Better matched to purpose • Not all default based on wizard • Are more user friendly (will include some of these): ○ titles relevant to purpose

		- data input aids present eg asterisks, instructions though may not use combo box for product - disabled fields - field widths not left at default though may not be entirely sensible - some labels amended from default where appropriate - may not include calculated fields or will have some missing - house style is present - layout good in places
	3	• Mostly user friendly (***do not need all*** of these but a very good attempt): - relevant titles - some data input aids eg asterisks, instructions and combo box for product - field widths fully sensible - will include calculated fields (not looking at the calculations themselves) - all generated fields will be disabled - layout mostly good
	4	• Are very user friendly: - relevant titles - data input aids present where suitable including combo box for product, asterisks, instructions etc. - all field widths sensible - all fields other than product and number delivered disabled - appropriate house style used throughout - will include all calculated fields (not looking at the calculations themselves) - layout very good

Trait 2	No criteria needed in this paper Calculations: - updated number in stock – current number in stock + number delivered - overall cost price – updated number in stock * cost price - overall sales value – updated number in stock * selling price <table><tr><th>Band</th><th>Comments</th></tr><tr><td>1</td><td>Calculations missing or are all inaccurate</td></tr><tr><td>2</td><td>At least one calculation present and correct</td></tr><tr><td>3</td><td>At least two calculations present and correct</td></tr><tr><td>4</td><td>All three calculations present and correct</td></tr></table>
Trait 3	This trait is about validation and automation. **Supplier form** - opens at a new record - validation to ensure - supplier, telephone number and delivery days are present - delivery days has to be between 1 and 5 - suitable error messages displayed if required - record would only save (in the supplier table) if data is valid, a suitable save message would appear and the form would be cleared ready for next record (if unbound form used, must see how the save would take place eg append query in full and running the query in the code/macro)

Product delivery form
- cost price, selling price, current number in stock would appear after product selected (need to be sure the combo box would allow the selectin of a product. Watch out for bound ProductID with no unbound combo for the search for product. Check example solution
- new number in stock, overall cost price and overall selling price would appear after product has been selected and number delivered input (do not double penalise for calculations that are incorrect)

Band	Comments
1	**Supplier form** • Does not open at a new record • Save has been attempted but would not work properly: ○ validation has not been attempted (do not accept table level validation and do not assume validation added to the fields using the property sheet would work. Some do not e.g. is not null. ○ a valid record would save in the supplier table but there would be no save message and the form would not clear **Product delivery form** • Cost price, selling price, number in stock would not appear after the product has been selected • New stock level, overall cost price and overall selling price would not appear after the product has been selected and number delivered input
2	**Supplier form** • Does not open at a new record • Save has been attempted but is still not fit for purpose: ○ validation is present and correct for at least one of the fields ○ error message(s) are not entirely appropriate or are missing ○ a valid record would save in the supplier table, a save message would be displayed or the form would be cleared **Product delivery form** • Accept weakness in selection of ProductID in this band • Cost price, selling price, number in stock would appear after the product has been selected • New stock level, overall cost price and overall selling price would not appear after the product has been selected and number delivered input
3	**Supplier form** • Opens at a new record • Save is mostly correct: ○ validation is present and correct ○ error message(s) are appropriate ○ a valid record would save in the supplier table, a save message would be displayed or the form would be cleared **Product delivery form** • Accept weakness in selection of ProductID in this band • Cost price, selling price, number in stock would appear after the product has been selected

		• New stock level would appear after the product has been selected and number delivered input

	4	**Supplier form**
		• Opens at a new record
		• Save is correct:
		    ○ validation is present and correct
		    ○ error message(s) are appropriate
		    ○ a valid record would save in the supplier table, a save message would be displayed and the form would be cleared
		
		Product delivery form
		• Cost price, selling price, number in stock would appear after the product has been selected
		• New stock level, overall cost price and overall selling price would appear after the product has been selected and number delivered input

Trait 4	This trait is about functionality. Base the band awarded on the bands awarded for the other traits.	

Activity 7 – Testing (20 minutes)
How examiners approach marking this activity

Tests to be carried out

1. the supplier form is ready for data entry when the form opens
2. the delivery days cannot be above the top of the range
3. the delivery days cannot be below the bottom of the range
4. a record will save in the supplier table if the supplier details are present and valid
5. after the product has been selected and the number delivered input these details should be displayed:
   - cost price
   - selling price
   - current number in stock
6. after the product has been selected and the number delivered input these details should be calculated and displayed:
   - the new number in stock
   - the overall cost for the products in stock
   - the overall sales value for the products in stock.

Band 1	• Not all of the tests requested will be present or they may be inappropriate • Type of test may not be present or may be incorrect • There will be no test data, or it will not relate to the test being carried out • Expected results may be inappropriate • At least 1 test result will be appropriate • Errors may be present that have not been identified
Band 2	• All of the supplier tests (1-4) will be present and mostly appropriate • Product delivery testing may be missing or will be inappropriate • Type of test may not be present or may be incorrect • There will be test data, but it may be incomplete or general e.g. 'above range' rather than stating exactly what data will be used in each field • Expected results will be sensible but may not be detailed e.g. 'error message' rather than 'error message saying the number of days for delivery has to be between 1 and 5'. • Actual results will be present, but some may not be entirely appropriate • Errors may/may not have been found
Band 3	• All tests will be present, and they will be appropriate • Test data will be specific for all fields • Type of test will be mostly accurate • Expected results will be specific (including results of calculations) • Actual results will show all of the test data used and any relevant messages • Do not penalise if there are no errors and the testing is accurate

Activity 5 – Evaluation (20 minutes)

How examiners approach marking this activity

- Read evaluation and determine **best fit** for band based on understanding of technical concepts and technical vocabulary
- Assign position in **that** mark band based on evaluative content

What should be evaluated:

Supplier form

- the supplier form is ready for data entry when the form opens
- the delivery days cannot be above the top of the range
- the delivery days cannot be below the bottom of the range
- a record will save in the supplier table if the supplier details are present and valid

Product delivery form

- after the product has been selected and the number delivered input these details should be displayed:
    - cost price
    - selling price
    - current number in stock
- after the product has been selected and the number delivered input these details should be calculated and displayed:
    - the new number in stock
    - the overall cost for the products in stock
    - the overall sales value for the products in stock.

Band 1	Will be very superficial with major omissions
Band 2	Will discuss both forms - some aspects sensibly though may not fully explain them or relate them very well to their own solution. Or may fully discuss one form only.
Band 3	Will discuss both forms. Will relate to scenario (they do not need to explicitly mention the scenario, but you should see what they are talking about relates to the scenario. Will be able to see comments relating their solution to the end user and what it will mean to them.