Cost Accounting Level 3



International Qualifications from EDI

# Model Answers Series 3 2012 (3017)

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#### How to use this booklet

Model Answers have been developed by EDI to offer additional information and guidance to Centres, teachers and candidates as they prepare for LCCI International Qualifications. The contents of this booklet are divided into 3 elements:

- (1) Questions reproduced from the printed examination paper
- Model Answers

   summary of the main points that the Chief Examiner expected to see in the answers to each question in the examination paper, plus a fully worked example or sample answer (where applicable)
- (3) Helpful Hints where appropriate, additional guidance relating to individual questions or to examination technique

Teachers and candidates should find this booklet an invaluable teaching tool and an aid to success.

EDI provides Model Answers to help candidates gain a general understanding of the standard required. The general standard of model answers is one that would achieve a Distinction grade. EDI accepts that candidates may offer other answers that could be equally valid.

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Triage Products Ltd manufactures three products Pee, Que and Tee. At present the company uses a traditional absorption costing system to establish the costs of production. Budgeted production data for the next period is as follows:

	Pee	Que	Тее
Production output (units)	500	400	200
Material per unit at £5 per kg	10kg	20kg	15kg
Labour per unit at £10/hour	2hrs	2hrs	3hrs
Machine time per unit	4hrs	3hrs	4hrs

Variable production overheads are budgeted to be absorbed at £3.50 per labour hour. Fixed production overheads for the period are budgeted to be £30,000, absorbed on a machine hour basis.

The company is considering the introduction of an activity based costing system. Further investigation has revealed the following activities and related fixed overhead costs:

Activities	Costs (£)
Product inspection	9,600
Machine set-up	6,400
Machine maintenance	4,300
Packing and despatch	3,300
Material handling	6,400
C C	30.000

Other information

- (i) Budgeted production is expected to consist of: Pee10 orders; Que and Tee 5 orders each. Each order is expected to require one machine set up and two inspections
- (ii) Machine maintenance is carried out regularly based on a predetermined number of machine running hours.
- (iii) Each product is packed and despatched in crates containing the following number of products per crate: Pee 20 units, Que 25 units and Tee 8 units. The number of crates used influences product despatch costs.
- (iv) Material handling costs are influenced by the quantity of material used.

## REQUIRED

- (a) Calculate for the nest period, the production cost of one unit of each product using:
  - (i) Traditional absorption costing
  - (ii) Activity based costing
- (b) Explain the meaning of the term, cost driver and provide two examples to illustrate your answer.

(4 marks)

# MODEL ANSWER TO QUESTION 1 Syllabus Topic 2: Costing methods and systems (2.1&2.2)

(a)				
	Pee	Que	Тее	Total
Output(units)	500	400	200	
Machine per unit	4 hrs	3 hrs	4 hrs	
Total machine hrs	2,000	1,200	800	4,000
Fixed overhead for peri	iod(£)			30,000

Overhead absorption rate =  $\pounds$ 30,000 / 4,000 =  $\pounds$ 7.50 per machine hour (1)

# Production cost (Traditional absorption costing)

(i)	Pee f		Que f		Tee f	
Material	<b>~</b> 50.0	(10 x £5)	100.0	(20 x £5)	<b>~</b> 75.0	(15 x £5)
Labour	20.0	(2 x £10)	20.0	(2 x £10)	30.0	(3 x £10)
Variable overheads	7.0	(2 x £3.50)	7.0	(2 x £3.50)	10.5	(3 x £3.50)
Fixed overheads	30.0	(4 x £7.50)	22.5	(3 x £7.50)	30.0	(4 x £7.50)
Total unit cost	<u>107.0</u>	(1)	<u>149.5</u>	(1)	<u>145.5</u>	(1)
						(4 marks)
Activity Based Costing						
(ii)	Pee		Que		Тее	
	£		£		£	
Overhead						
Product inspection						
Cost driver £240 per insp	pection	(4.0	10		10	
No of inspections	20	$(10 \times 2)$	10	(5 x 2)	10	$(5 \times 2)$
l otal cost(£'000)	4.8	(9.6X20/40)	2.4	(9.6X10/40)	2.4	(9.6X10/40)
Cost per unit (£)	9.6	4,800/500	6	2,400/400	12	2,400/200
Machine set-up						
Cost driver £320 per set	up					
No of machine set-ups	10	(10 x 1)	5	(5 x 1)	5	(5 x 1)
Total cost(£'000)	3.2	6.4x10/20	1.6	6.4x5/20	1.6	6.4x5/20
Cost per unit (£)	6.4	3,200/500	4	1,600/400	8	1,600/200
Machine maintenance						
Cost driver £1.075 per m	/c hr					<i></i>
No of machine hours	2,000	(500 x 4)	1,200	(400 x 3)	800	(200 x 4)
Total cost(£'000)	2.15	4.3 x (2/4)	1.29	4.3 x (1.2/4.0)	0.86	4.3 x (0.8/4.0)
Cost per unit (£)	4.3	2,150/500	3.225	1,290 / 400	4.3	860 /200
Packing & despatch						
Cost driver £50 per crate	•					
No of crates	25	500/20	16	400/25	25 2	200/8
Total cost(£'000)	1.25	(3.3x25/66)	0.8	3.3x16/66)	1.25 (	(3.3x25/66)
Cost per unit (£)	2.5	1,250/500	2	800/400	6.25 <sup>·</sup>	1,250/200

## MODEL ANSWER TO QUESTION 1 CONTINUED

Material handling Cost driver £0.4 per kg						
Quantity of material(kg)	5,000	(500x10)	8,000	(400x20)	3,000	(200x15)
Total cost(£'000)	2	(6.4x5,000/16,000)	3.2	6.4x8,000/16,000)	1.2	(6.4x3,000/16,000)
Cost per unit (£)	4	(2,000/500)	8	(3,200/400)	6	(1,200/200)
Overhead cost per unit						
Cost driver £0.4 per kg						
Product inspection	9.60	1∕₂ <b>of</b>	6.00	<sup>1</sup> ∕₂ of	12.00	<sup>1</sup> ∕₂ of
Machine set-up	6.40	<sup>1</sup> ∕₂ of	4.00	<sup>1</sup> ∕₂ of	8.00	<sup>1</sup> ∕₂ of
Machine maintenance	4.30	<sup>1</sup> ∕₂ of	3.23	<sup>1</sup> ∕₂ of	4.30	<sup>1</sup> ∕₂ of
Product despatch	2.50	<sup>1</sup> ∕₂ of	2.00	<sup>1</sup> ∕₂ of	6.25	<sup>1</sup> ∕₂ of
Material handling	4.00	<sup>1</sup> ∕₂ of	8.00	<sup>1</sup> ∕₂ of	6.00	<sup>1</sup> ∕₂ of
Cost per unit	<u>26.80</u>	<sup>1</sup> ∕₂ of	<u>23.23</u>	½ <b>of</b>	<u>36.55</u>	½ <b>of</b>

#### Production cost (Activity based costing)

	Pee	Que	Тее	
	£	£	£	
Material	50.00	100.00	75.00	
Labour	20.00	20.00	30.00	
Variable overheads	7.00	7.00	10.50	
Fixed overheads	26.80	23.23	36.55	
Total unit cost	<u>103.80</u>	(1) <u>150.23</u>	(1) <u>152.05</u>	(1)

Only award of for total unit costs if material, labour, variable and fixed overheads are correct

(12 marks)

#### (b) Cost drivers

A cost driver is any factor which causes a change in the cost of an activity (2)

#### Examples

Number of inspections Number of machine set-ups Number of machine hours Number of boxes Weight of material moved

#### (1 mark for any two) (2)

## (4 marks)

Sinclair Ltd manufactures a product in a single process. All materials are introduced at the start of the process and any losses that occur have no scrap value. The company uses the first-in-first out method of valuation.

#### Additional Information

Production overheads are absorbed at the rate of £10 per direct labour hour.

Direct labour is paid at the rate of £12 per hour.

The following information is available for the last period:

Opening stock of work-in-progress (60% complete with respect to labo	500kg ur and overheads)	£4,150
Material introduced	8,000kg	£35,000
Direct labour		£16,560
Transfer to finished goods	7,000kg	
Closing stock of work-in-progress (50% complete with respect to labo	600kg ur and overheads)	
normal loss of 1,000kg was expected		

All losses are detected at the end of the process.

#### REQUIRED

А

- (a) For the last period calculate:
  - (i) the equivalent units and the cost per unit for each element of cost
  - (ii) the value of the transfer to finished goods and of the closing stock of work-in-progress

(11 marks)

(b) Prepare the process account for the last period

(4 marks)

(c) Define normal loss, abnormal loss, abnormal gain and contrast their cost accounting treatment

(5 marks)

#### MODEL ANSWER TO QUESTION 2 Syllabus Topic 2: Costing methods and systems (2.3 and 2.5)

(a) (i)

	Material	Labour	Overheads	
Transfer to finished goods	7,000	7,000	7,000	
Abnormal gain	(100)	(100)	(100)	
Closing stock	600	300	300	
Opening stock	(500)	(300)	(300)	
Equivalent units	7,000	6,900	6,900	(1½)
Costs	£35,000	£16,560	£13,800	
Costs per unit	£5.00	£2.40	£2.00	(1½of)

Workings

Abnormal gain = 500 + 8,000 - 600 - 7,000 - 1,000 = (100kg)	(1)
Overhead cost = £16,560 / 12 x 10 = £13,800	(1)

(ii)

Value of transfer to Finished goods = Cost of opening stock completed + cost of output wholly processed Opening stock completed =  $\pounds4,150 + (500 - 300) \times (2.40 + \pounds2.00) = \pounds5,030$  (1of) Cost of output wholly processed =  $(7,000 - 500) \times (\pounds5 + \pounds2.40 + \pounds2) = \pounds61,100$  (1of) Value of transfer to Finished goods =  $\pounds5,030 + \pounds61,100 = \pounds66,130$  (2of) (4)

Cost of closing work-in-progress =  $(600 \times \pounds5) + 300 \times (\pounds2.4 + \pounds2) = \pounds4,320$ 

(11 marks)

(2)

(b)		Process A	Process Account			
	Units	Cost(£)		Units	Cost(£)	
Opening WIP	500	4,150	Finished goods	7,000	66,130	(1 of)
Material	8,000	35,000	Normal loss	1,000	<b>(1)</b> 0	
Labour		16,560	Closing WIP	600	4,320	(1 of)
Overheads		13,800				
Abnormal gain	100	940 <mark>(1</mark> )				
	8,600	70,450		8,600	70,450	

(c) Normal loss: A loss that is expected in production under normal operating conditions
 (1) Abnormal loss: A loss that exceeds the normal loss
 (1) Abnormal gain: A gain over the expected finished goods output
 (1)

Normal losses are built into the cost of good units, any scrap value arising is normally deducted from the cost of material input. (1) Abnormal losses/gains do not affect unit costs as they are separately valued as if they were completed production and are charged as a separate cost item (1)

(5 marks)

Makit Ltd manufactures and sells four products (Hay, Bee, Cee and Dee) to the automobile industry. The company has prepared the following budget detail for year 2.

Product	Hay	Bee	Cee	Dee
Sales (units)	12,000	8,000	6,000	10,000
Sales price per unit	£20	£20	£25	£25
Direct material (per unit)	£6	£7	£5	£8
Direct labour (per unit)	£4	£6	£5	£6
Fixed costs (per unit)	£5	£5	£5	£5

#### REQUIRED

(a) Calculate the contribution to sales ratio for each product and for Makit Ltd overall.

(4 marks)

(b) Calculate the break-even revenue (to the nearest thousand) based on the budgeted sales mix.

(2 marks)

(c) Draw a conventional break-even chart for the budgeted sales mix. Indicate clearly on the chart the break-even revenue, the margin of safety and the profit for the budgeted sales of all four products

(8 marks)

The company is considering increasing its advertising on product Cee. Market research suggests that this would generate a 40% increase in the sales of product Cee, have no effect on the sales of product Bee and Dee but would reduce the sales of product Hay by 25%.

The additional advertising would increase the fixed costs by £10,000 for the year

#### REQUIRED

(d) Advise the company, using supporting calculations, whether to increase the advertising on product Cee.

(6 marks)

# MODEL ANSWER TO QUESTION 3 Syllabus Topic 3: Cost-volume-profit analysis (3.1,3.2,3.4 and 3.5)

(a)	Нау	Bee	Cee	Dee	Total	
Sales (units)	12,000	8,000	6,000	10,000		
Sales price(unit)	20	20	25	25		
Sales revenue(£)	240,000	160,000	150,000	250,000	800,000	
Direct material (£/unit)	6	7	5	8		
Direct labour (£/unit)	4	6	5	6		
Variable cost (£/unit)	10	13	10	14		
Contribution (£/unit)	10	7	15	11		(1)
Total contribution(£)	120,000	56,000	90,000	110,000	376,000	
Contribution to sales ratio	50%	35%	60%	44%	47%	
	(1/2)	(1/2)	(1/2)	(1/2)	(1)	
(b)						(4 marks)
Budgeted fixed cost =	£5x(12,000+8,00	00+6,000+1	0,000) = £5	5 x 36,000 =	£180,000	(1)
Break-even revenue =	Fixed cost / over	all contribut	tion sales ra	atio		
=	£180,000 / 0.47	= £382,979	= £383,00	0		(1of)
						(2 marks)

# MODEL ANSWER TO QUESTION 3 CONTINUED

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Break even chart	(Over the page)	
Title		(1)
Axis labels		(1)
Fixed cost line		(1)
Total cost line		(1)
Revenue Line		(1)
Break -even		(1)
Margin of safety		(1)
Profit		(1)

(8 marks)



Additional advertising	
Product Cee	
Increase in sales = $40\%$ of $6,000 = 2,400$ units	(1)
Increase in contribution = $2,400 \times \pounds 15 = \pounds 36,000$	(1)
Product Hay	
Decrease in sales = 25% of 12,000 = 3,000 units	(1)
Decrease in contribution = 3,000 x £10 = £30,000	(1)
Overall increase in contribution (£36,000 - £30,000) = £6,000	(1of)
Overall increase in fixed costs = $\pounds10,000$	
Additional advertising would result in an overall loss of profits of £4,000	(1of)
Advise the company not to increase the advertising on product Cee.	
	(6 marks)

## Alternative answer

(d)

Profit (price to additional advertising) contribution + fixed costs (1) (1) £376,000 - £180,000 = £196,000 Profit (with additional advertising)  $\pounds$   $\pounds$ 

		L	L			
	Sales		800,000			
	Variable costs	418,000			(1)	
	Fixed costs	<u>190,000</u>				
	Total		( <u>608,000</u> )		1of	
	Profit			£192,000	1of	
Additional a	dvertising would	result in an				
overall loss	of profits of			£4,000	1of	

Travelfar Ltd, a haulage company, which operates a fleet of 8 similar heavy goods vehicles and employs 8 drivers, has prepared the following monthly flexible budget based on the number of contracted jobs.

Number of contracts	120	140	160	180
	km	km	km	km
Vehicle travel (contracted to customer)	24,000	28,000	32,000	36,000
Vehicle travel (not contracted to customer)	18,000	21,000	24,000	27,000
i.e. return journey				
	£	£	£	£
Income from customers	52,800	61,600	70,400	79,200
Fuel costs	8,400	9,800	11,200	12,600
Driver wages	11,300	12,350	13,400	14,450
Vehicle maintenance	5,000	5,000	6,000	6,000
Office costs	1,960	2,120	2,280	2,440
Other operational costs	9,000	9,000	9,000	9,000

The following information has been provided.

Income from customers is generated by charging a rate per km proportional to the contracted distance travelled.

Drivers are paid a fixed wage plus a variable wage proportional to the total vehicle distance travelled. Office costs are partly related to the number of contracts completed

During month 1 the following actual data was recorded: Number of contracts jobs	164
	km
Vehicle travel (contracted to customers)	34,000
Vehicle travel (not contracted to customers) i.e. return journey	23,800
Income from customers Fuel costs Driver wages Vehicle maintenance Office costs Other operational costs	£ 82,660 12,980 12,810 5,500 2,412 9,400
	9,400

#### REQUIRED

(a) Prepare a statement for month 1 showing for each budgeted item the following:

(i)	The flexed budget
(ii)	The actual result

(iii) The variance.

(b) Explain the difference between a forecast and a budget

(16 marks)

(4 marks)

#### MODEL ANSWER TO QUESTION 4 Syllabus Topic 4: Budgetary planning and control (4.1 and 4.9)

(a)	Travelfar Ltd - Budget Report - Month 1
	(Based on 164 contracted jobs)

	Flexed km		Actual km	Variance km	•
Vehicle travel (contracted to customers)	32,800	(1)	34,000	1,200A	(1of)
Vehicle travel (not contracted to customers)	24,600	(1)	23,800	800F	(1of)
	£		£	£	
Income from customers	72,160	(1)	82,660	10,500F	(1of)
Fuel costs	11,480	(2)	12,980	1,500A	(½0f)
Driver wages	13,610	(2)	12,810	800F	(½0f)
Vehicle maintenance	6,000	(1)	5,500	500F	(½0f)
Office costs	2,312	(2)	2,412	100A	(½0f)
Other operational costs	9,000		9,400	400A	(1of)
				(16 r	narks)

(b)

A forecast is an estimate for a future income or expense

(1) A budget is a plan of action expressed in financial terms relating to a future period. Ideally, it should encompass all of the activities of the business and should involve personnel throughout the organisation in its preparation (3) (4 marks)

#### Workings:

Vehicle travel (contracted to customers) - variable cost Vehicle travel per contract (worked at120 contracts) = 24,000 / 120 = 200km per contract 164 contracts = 200 x 164 = **32,800km** 

Vehicle travel (not contracted to customers) - variable cost Vehicle travel per contract (worked at120 contracts) = 18,000 / 120 = 150km per contract 164 contracts = 150 x 164 = **24,600km** 

Income from customers - variable based on contracted travel Income per contracted vehicle travel (worked at 120 contracts) =  $\pounds$ 52,800 / 24,000 =  $\pounds$ 2.20 per km 164 contracts =  $\pounds$ 2.20 x 32,800 =  $\pounds$ 72,160

Fuel - variable cost based on total vehicle travel Fuel cost per km travelled (worked at 120 contracts) =  $\pounds 8,400 / (24,000 + 18,000) = \pounds 0.20$  per km 164 contracts =  $\pounds 0.20 \times (32,800 + 24,600) = \pounds 11,480$ 

Wages - semi variable partially based on total vehicle travel High/low method based on the range 120 :180 contracts

	Costs(£)	Travel(km)
180 contracts	14,450	63,000
120 contracts	<u>11,300</u>	42,000
	3,150	21,000

## **MODEL ANSWER TO QUESTION 4 CONTINUED**

Variable wage =  $3,150 / 21,000 = \pm 0.15$  per km Fixed element (based on 180 contracts) =  $\pm 14,450 - 63,000 \times 0.15 = \pm 5,000$ Wage cost for 164 contracts =  $5,000 + 57,400 \times 0.15 = \pm 13,610$ 

Vehicle maintenance - stepped cost 164 contracts = **£6,000** 

Office costs - semi variable partially based on the number of contracts High/low method based on the range 120 :180 contracts

	Costs(£)	Contracts			
180 contracts	2,440	180			
120 contracts	<u>1,960</u>	<u>120</u>			
	480	60			
Variable office cost = 480 / 60 = £8.00 per contract					
Fixed element (based on 180 contracts) = $\pounds 2,440 - 180 \times 8.00 = \pounds 1,000$					
Office cost for 164 contra	octs = 1,000 + 164 x 8.00	= £2,312			

Other operating costs - Fixed

The standard variable production costs of a company's single product in the last period were as follows:

Direct	materia	als			£		
	M01		4kg at £2 pe	r kg 8 par matra	8.00		
Direct	labour		Zmelles al £	o per metre	10.00		
	Grade	A	3 hours at £1	0 per hour	30.00		
	Grade	В	4 hours at £1	2 per hour	48.00		
Budge Actua	eted pro I produc	duction for t	his period wasts relating to	s 480 units this period were as	follows:		
	Produc	tion	500 units				
Direct	materia	als					
Purch	ases		0.0001				
	M01 M02		2,000 kg pur	chased at a total co urchased at a total (	st of £4,300		
Issues	s to pro	duction	oooniciico p		031 01 20,200		
	M01		1,950kg				
	M02		900metres				
Direct	labour						
	Grad	e A	1,600 hours (includes 150	worked at a total co ) hours idle time ca	st of £15,600 ised by machine b	reakdown)	
	Grad	e B	2,100 hours	worked at a total co	st of £25,450	akdown)	
			(includes 50		sed by machine bre	andowity	
At the	beginn	ing of the pe	eriod the follo M01	wing quantities of ra 200 kg	w material were in	stock:	
There	were n	a stacks of v	M02 work in progre	120 metres	or end of the peric	hd	
The c	ompany	's policy is t	o calculate m	aterial price variance	e at the time of pu	rchase.	
REQL	JIRED						
For th	e last p	eriod					
(a)	Calcula	ate the follov	ving variance	S:			
	(i) I	Direct mater	ial price (for e	each type of raw ma	terial)		
	(ii) [	Direct mater	ial usage (for	each type of raw m	aterial)		
	(III) I (iv) I	dle time (for	r rate (for eac : each grade (	n grade of labour)			
	(v) I	Labour effici	ency (for eac	h grade of labour)			
						(12	marks)
(b)	Prepar	e the Raw M	Aterials Stoc	k Account for each	ype of direct mater	ial	
· /	(includ	e in your acc	counts the pri	ce variance).			
						(8	marks)
						(Total 20	marks)

MODEL ANSWER TO QUESTION 5 Syllabus Topic 5: Standard costing and variance (5.5,5.8 and 5.9) Syllabus Topic 6: Accounting Systems (6.3)

(a) (i)

## Direct material price variance

()		Material M01	Material M02				
	Standard price	£2 per kg	£8 per metre				
	Purchase quantity	<u>2,000 kg</u>	800 metres				
		£4,000	£6,400				
	Actual cost of purchases	£ <u>4,300</u>	£ <u>6,200</u>				
	Direct material price variance	£ <u>300A</u>	£ <u>200F</u>	(2)			
(ii)	Direct material usage variance						
	Production	500 units	500 units				
	Standard use per unit	4kg	<u>2 metres</u>				
		2,000kg	1,000 m				
	Actual use	<u>1,950kg</u>	<u>900 m</u>				
		50kg	100m				
	Standard price	£ <u>2 per kg</u>	£ <u>8 per metre</u>				
	Direct material usage variance	£ <u>100F</u>	£ <u>800F</u>	(2)			
(iii)	Direct labour rate variance						
		Grage A	Grage B				
	Actual hours	1,600	2,100				
	Standard rate per hour	£10	<u>£12</u>				
		£16,000	£25,200				
	Actual cost of labour	£ <u>15,600</u>	£ <u>25,450</u>				
	Direct labour rate variance	£ <u>400F</u>	£ <u>250A</u>	(2)			
(iv)	Idle Time Variance						
	Idle time hours	150 hours	50 hours				
	Standard rate per hour	£10	£12				
	Idle Time Variance	£ <u>1500A</u>	£ <u>600A</u>	(2)			
(v)	Direct labour efficiency variance						
	Production	500 units	500units				
	Standard hours per unit	<u>3 hours</u>	4 hours				
		<u>1,500 hours</u>	<u>2,000 hours</u>				
	Actual hours	1,600 hours	2,100 hours				
	Idle time hours	150 hours	50 hours				
	Actual productive hours	1,450 hours	2,050 hours	(2)			
	Standard - Actual prod hours	50 hours	(50 hours)				
	Standard rate per hour	<u>£10</u>	<u>£12</u>				
	Direct labour efficiency variance	£ <u>500F</u>	£ <u>600</u> A	(2)			

(12 marks)

# MODEL ANSWER TO QUESTION 5 CONTINUED

(b)

Direct Material Stock Account (M01)								
Balance b/d	400	(1)	Work in progress	3,900	(1of)			
Purchases	4,300		Price variance	300	(1of)			
			Balance c/d	500	(1)			
	<u>4,700</u>			<u>4,700</u>				
Direct Material Stock Account (M02)								
Balance b/d	960	(1)	Work in progress	7,200	(1of)			
Purchases	6,200		Balance c/d	160	(1)			
Price variance	<u>200</u> 7.360	(1of)		7,360				
3)								
(Total 20 marks								

# EDI

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