

Mark Scheme April 2018

Results

Pearson LCCI Level 3 Certificate in Cost and Management Accounting (VRQ) 2015 (ASE20098)



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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Question	Answer (AO1) 1 (AO3) 1	Mark
1(a)(i)	Award 1 AO1 mark for basic point and 1 AO3 mark for development.	
	Attainable Standard – is the standard considered to be challenging but achievable under current operating condition (1) which allows for a small amount of wastage, idle time or inefficiency (1).	(2)

Question	Answer (A01) 1 (A03) 1	Mark
1(a)(ii)	Award 1 AO1 mark for basic point and 1 AO3 mark for development. Given that this standard is achievable (1) - it may motivate workers to work efficiently / give of their best (1). OR Given that the standard is seen to be fair (1) – both adverse and favourable labour variances are likely to arise (1)	(2)

Question	Answer (AO2) 2	Mark
1(b)(i)	Material price: (5.60 - 6.00) × 43 170 = \$17 268 Adv (1)	
	Actual price = 259 020 / 43 170 kg = \$6.00 / kg (1)	
	This must be correctly identified as favourable or adverse to get the final mark.	(2)

Question	Answer (AO2) 2	Mark
1(b)(ii)	Material usage: (40 984 - 43 170) 2 186 x 5.60 = \$12 241.60 Adv (1)	
	Standard quantity = (47 000 / 25 000) x 21 800 = 40 984 kg (1)	
	This must be correctly identified as favourable or adverse to get the final mark.	(2)

Question	Answer (AO2) 2	Mark
1(b)(iii)		
	Labour rate: (7.20 - 7.10) x 5 720 = \$572 Fav (1)	
	Actual rate = 40 612 / 5 720 hours = \$7.10 / hour (1)	
	This must be correctly identified as favourable or adverse to get the final mark.	(2)

Question	Answer (AO2) 2	Mark
1(b)(iv)		
	Labour efficiency: (5 450 – 5 720) 270 x 7.20 = \$1944 Adv (1)	
	Standard quantity = (6 250 / 25 000) x 21 800 = 5 450 hours (1)	
	This must be correctly identified as favourable or adverse to get the final mark.	(2)

Question	Answer (AO2) 2	Mark
1(b)(v)	Fixed overhead expenditure: 110 000 - 108 300 = \$1 700 Fav (1)	
	Budgeted Overheads = 25 000 x 4.40 = \$110 000 (1)	
	This must be correctly identified as favourable or adverse to get the final mark.	(2)

Question	Answer (AO2) 2	Mark
1(b)(vi)	Fixed overhead volume: 4.40 x 3 200 (21 800 - 25 000) (1) = \$14 080 Adv (1)	
	This must be correctly identified as favourable or adverse to get the final mark.	
		(2)

Question	Answer (AO1) 1	Mark
1(c)(i)	Adverse material usage Answers may include:	
	Material used might have been of a lower quality (1of) There may have been more wastage / production problems than expected 1of) Workers may have been less skilled than expected (1of)	(1)

Question	Answer (AO1) 1	Mark
1(c)(ii)	Favourable labour rate	
	Workers may have been of a low quality / skill level (1of) Standard hours may have been set incorrectly at the start of the budget period (1of)	(1)

TOTAL FOR QUESTION 1 = 18 MARKS

Question	Answer (AO2) 3	Mark
2(a)(i)	Variable costs = $\frac{602\ 270}{55\ 000}$ = \$44\ 200 (1) = \$3.40 / unit (10f)	
		(3)

Question	Answer (AO2) 2	Mark
2(a)(ii)	High: FC = 602 270 - 187 000 (55 000 x 3.40) (1of) = \$415 270 (1of) OR 558 070 - 142 800 (42 000 x 3.40) = \$415 270	(2)

Question	Answer (AO2) 2	Mark
2(b)(i)	Break-even = <u>415 270</u> (of) = 63 400 units (1of) 6.55 (1of)	(2)
	$(9.95 - 3.40 \ (of) = 6.55 \ (of))$	

Question	Answer (AO2) 1	Mark
2(b)(ii)	Break-even revenue = 63 400 (of) x 9.95 = \$630 830 (1of)	(1)

Question	Answer (AO2) 3	Mark
2(c)	Target Output = (415 270 + 131 000) 546 270/6.55 (1of) = 83 400 units (1of) Revenue required = 83 400 x 9.95 = \$829 830 (1of)	(3)

Question	Answer (AO2) 1	Mark
2(d)(i)	Margin of safety (units) = 80 000 - 63 400 (of) = 16 600 units (1of)	(1)

Question	Answer (AO2) 2	Mark
2(d)(ii)	Margin of safety (%) = $\frac{16\ 600}{80\ 000}$ (1of) x 100 = 20.75% (1of) 80 000	(2)



TOTAL FOR QUESTION 2 = 20 MARKS

Question	Answer (AO2) 2	Mark
3(a)	Orders required (10 000 x 12) / 20 000 = 6 orders (1)	
	6 orders x \$500 = \$3 000 (1of)	(2)

Question	Answer (AO2) 2	Mark
3(b)	Average Inventory = $5\ 000 + (20\ 000 / 2) = 15\ 000\ kg\ (1) \times $0.70 = $10\ 500\ (1)$	(2)

Question	Answer (A	02) 6			Mark
3(c)					
	Costs	20 000 kg	60 000 kg		
	Purchasing	\$840 000 (1)	\$819 000 (1)	97.5% x 120 000 x £7.00	
	Ordering	\$3 000	\$1 000 (1)	120 000 / 60 000 = 2	
				$2 \times \pounds 500 = \pounds 1\ 000$	
	Holding	\$10 500	\$24 500 (1)	5 000 + (60 000 / 2) = 35 000	
				35 000 x £0.70 = £24 500	
	Total	\$853 500	\$844 500	Figure must include purchasing,	
		(1of)	(1of)	ordering and holding costs.	
					(6)

Question	Answer (AO4) 1 (AO5) 1	Mark
3(d)	The company should increases the size of its orders to 60 000 kg (1of)	
	This will save Metis \$9 000 / reduce inventory costs (1).	(2)

Question	Answer (A01) 1 (A02) 3	Mark
3(e)	EOQ = $\sqrt{\frac{2 \times \text{ order cost } \times \text{ annual usage/demand }}{\text{holding cost}}}$ (1)	
	EOQ = $\sqrt{\frac{2 \times 500 \times 120\ 000}{0.70\ (1)}}$ (1) = 13 093 kg (1of)	(4)

Question	Answer (AO2) 3		Mark
3(f)(i)	Current average value of inventory		
	20 000 kg orders: 15 000 kg x 7.00 = \$105 000 (1)	60 000 kg orders: 35 000 (1) x 6.825 = \$238 875 (1) New purchase price = 97.5% x 7.00 = \$6.825	(3)

Question	(AO4) 1	Mark
3(f)(ii)	The current insurance policy would cover the increased inventory (1of).	(1)

Question	(A01	.) 2 (AO3) 2	Mark	
3(g)	Award 1 AO1 mark for basic point and 1 AO3 mark for development.			
	Answers might include:			
	• Bu	usiness would hold enough inventory (1) – this would ensure that it never lost oduction/sales/customers as a result of running out (1).		
	• Bu bu	usiness would hold the right type of inventory (1) – this would help the usiness to maximize sales/reduce wastage (1).		
	• Th ho	the business would not hold too much inventory (1) – this would ensure that olding costs are minimized/less money is tied up/less wastage is suffered (1)	(4)	

TOTAL FOR QUESTION 3 = 24 MARKS

Question	Answer (AO1) 2	Answer (AO1) 2					Mark
4(a)	Answers may include:	Answers may include: Max 2 x 1					
	Labour Hours (1) Ma	chine Hours	s (1) Physic	cal Space (3	1) Cash (1	1)	(2)
	1						
Question	Answer (AO2) 5						Mark
4(b)	Revenue Variable costs Contribution Kg consumed Contribution / kg Order of Production	A11 132 500 62 500 70 000 3 500 \$20.00 1	B22 164 000 <u>80 000</u> 84 000 4 800 \$17.50 3	C33 166 800 <u>78 000</u> 88 800 4 800 \$18.50 2	(1) (1) for a (1) for a (1of) fo (1) OF f	all 3 all 3 or all 3 for C	(5)
Question	Answer (AO2) 3						Mark
4(c)	Material Left Produ 11 000 A11 7 500 C33 2 700 B22	ict 5 000 3 000 2 2 700	Output a units x 0.7 units x 1.6 kg / 1.20 =	and usage 70 = 3 500 50 = 4 800 5 2 250 uni	kg (kg (its ((1) (1) (1)	(3)
]						
Question	Answer (AO2) 4						Mark
4(d)	Units sold Contribution / unit	A11 5 000 14.00	B22 2 250 21.00	C33 3 000 29.60	Total	(1)	

Contribution / Unit	14.00	21.00	29.60		(1)	
Total contribution	70 000	47 250	88 800	206 050	(1of)	
Fixed costs				<u>(192 000)</u>	(1)	
			Profit	<u>14 050</u>	(1of)	
A11: 70 000 / 5 000 =	= \$14.00 /u	nit. B22: 8	4 000 / 4 0	00 = \$21.00	/ unit	
C33: 88 800 / 3 000 =	= \$29.60 / ı	unit (1) fo i	r all 3			(4)

Question	Answer (AO4) 2 (AO5) 2	Mark
4(e)	In Favour (TWO marks maximum):	
	• This product-mix ensures that the material is used where it will generate the most contribution / give the most benefit per kg (1) – this will ensure that the maximum profit is made (1).	
	• The product-mix ensures that the product making the least contribution is reduced (1) – this will minimize the reduction in profit (1) .	
	Against (TWO marks maximum):	
	 This assumes that selling price and costs will not change (1) – any changes may mean that material is not used effectively (1). 	
	• The products may be complementary (1) – there will be no point making one product if another is going to be reduced / withdrawn (1) .	
	 Customers might only purchase because they can get the whole range of products from one supplier (1) – withdrawing or reducing one product may lose sales of the other products (1). 	
	• Himalia may be contracted to supply all three products (1) – withdrawing or reducing one product may lead to legal problems (1) .	
	Conclusion: Himalia should / should not adopt the optimal product-mix (1) .	
	The conclusion MUST be supported by at least one point in favour or against.	(4)

TOTAL FOR QUESTION 4 = 18 MARKS

Question	Answer (AO2 1)	Mark
5(a)(i)	Standard hours production = $56\ 862\ /\ 20\ = 2\ 843.10\ hours\ (1)$	(1)

Question	Answer (AO2 2)	Mark
5(a)(ii)	Production Efficiency = $\frac{2\ 843.10}{2\ 916}$ (1of) x 100 = 97.5% (1of)	(2)

Question	Answer (AO2 3)	Mark
5(a)(iii)	Capacity = <u>2 916</u> (1of) x 100 = 108.00% (1of) 2 700 (1)	
	Budgeted hours = 15 x 180 = 2 700 hours	(3)

Question	Answer (AO2 2)	Mark
5(a)(iv)	Volume = <u>2 843.10</u> (1of) x 100 = 105.30% (1of) 2 700 (of)	(2)
		(2)

Question	Answer (AO2) 4				Mark
5(b)(i)	Material	Cost \$ 2 600 + 13 720 = 16 320	Total Equivalent units 2 700 + (50% x 1000) = 3 200 (1)	Cost per unit \$5.10		
	Labour & overheads	4 100 + 7 450 = 11 550	2 700 + (30% x 1000) = 3 000 (1)	\$3.85	(1-6)	
	Value of Goo	ds sent to custome	er = 2 700 x 8.95 = \$24	\$8.95 165 (1of)	(101)	(4)

Question	Answer (AO2) 3			Mark
5(b)(ii)	Value of clos Material Labour & overheads Total cost	ing work-in-progress: 500 equivalent units x 5.10 (of) = 300 equivalent units x 3.85 (of) =	\$2 550 \$1 155 \$3 705	(1of) (1of) (1of)	(3)

Question	Answer (AO4) 4 (AO5) 1	Mark		
5(c)	Answers may include:			
	Accurate and up-to-date:			
	• The business has the newest accounting packages - this should increase the speed and accuracy of information (1).			
	Not accurate and up-to-date:			
	 Data has to be copied across to the general ledger – this is time- consuming and increases the chances of errors (1). 			
	 Employees work independently on their own work – there is therefore no verification (1) which means that inaccurate data may be copied onto the general ledger (1) 			
	 Many of the computers are standalone which means that there may be several versions of the same information on different machines / it may not be the latest information being transferred to the general ledger (1). 			
	 The system is not integrated – so there are no inbuilt checks that would warn of potential errors in data being input (1). 			
	It is expected that candidates may produce stronger arguments against the system producing accurate and up-to-date information.			
	1 mark awarded for a conclusion that reflects the balance of the arguments.	(5)		

TOTAL FOR QUESTION 5 = 20 MARKS

TOTAL FOR PAPER = 100 MARKS