# **Answers**

# ACCA Certified Accounting Technician Examination – Paper T7 Planning, Control and Financial Management

June 2010 Answers

#### Section A

- 1 A
- **2 D**  $$50,000 $40,000 + ($500,000 \div 1.25) = $410,000$
- 3 A
- 4 D
- 5 D
- **6 C**  $(5,000 \times 12 \times 20 \div 120) + 8,000 = 18,000$
- **7 C**  $$57,200 (5,200 \times $50,000 \div 5,000 \text{ units}) = $5,200 \text{ favourable}$
- **8 A**  $(5,200 \text{ units} 5,000 \text{ units}) \times \$20,000 \div 5,000 \text{ units} = \$800 \text{ favourable}$
- 9 A
- 10 B

#### Section B

#### 1 (a)

# Marginal Costing profit reconciliation statement

#### May 2010

		\$ 14,500
		25,000
		39,500
		3,950 adv
		35,550
		4,500 fav
		40,050
Fav	Adv	
\$	\$	
	270	
	180	
1,100		
	200	
	750	
	600	
1,100	2,000	900 adv
	<del></del>	39,150
	25,000	
	1,350 fav	
	<del></del>	23,650
		15,500
	1,100	\$ \$ 270 180 1,100 200 750 600 1,100 2,000 25,000

#### (b) Variance investigation

Several factors should be considered before deciding whether to investigate a variance.

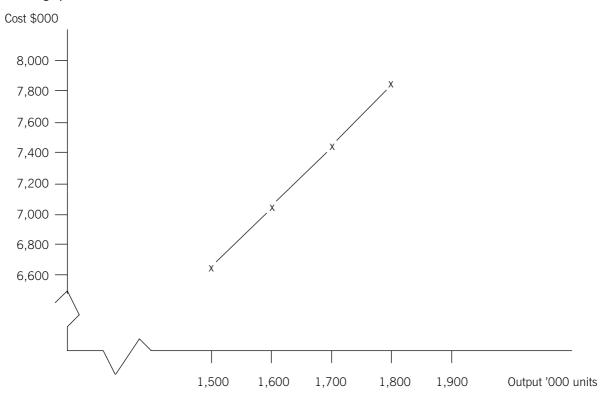
- 1. Reliability of the figures. Firstly we need to be certain that the figures are accurate. Mistakes in calculating budget figures or in recording actual costs and revenues could lead to variances being reported where no problem has actually occurred.
- 2. Materiality. The size of the variance might indicate the scale of the problem and the potential benefits from its correction.
- 3. Possible interdependence of variances. Sometimes a variance in one area will be related to a variance in another. For example, a favourable raw material price variance from buying lower grade material may cause an adverse labour variance because of difficulties in working the lower grade material. These two variances would need to be considered jointly before making a decision to investigate.
- 4. The inherent variability of the cost or revenue. Some costs are by nature quite volatile (for example oil prices) and price variances would not be surprising. Other costs such as labour are far more stable and even a small rate variance may indicate a problem.
- 5. Adverse or favourable. Adverse variances tend to attract most attention as they indicate problems; however, there is an argument for investigating favourable variances so managers can learn from their successes.
- 6. Trends in variances. One adverse variance may be caused by a random event. A series of increasingly adverse variances may indicate that the process is going out of control.
- 7. Controllability/probability of being able to correct. If a cost or revenue is outside manager's control (e.g. world market price of a raw material) then there is little point in investigating its cause.
- 8. Costs and benefits of correction. If the cost of correcting the problem is likely to be higher than the benefit then there is little point in investigating.

(Note: Only four factors were required.)

#### 2 (a) Total Costs in 2010 price levels

Year		Total Cost
2007	$12,450,000 \times 80 \div 150$	6,640,000
2008	\$15,840,000 x 80 ÷ 180	7,040,000
2009	\$6,510,000 x 80 ÷ 70	7,440,000
2010	\$7,840,000	7,840,000

#### (b) Scatter graph



#### (c) High low technique

Variable cost per unit = 
$$\frac{\text{Change in total cost}}{\text{Change in volume}}$$
 =  $\frac{(\$7,840,000 - \$6,640,000)}{(1,800,000 \text{ units} - 1,500,000 \text{ units})}$  =  $\frac{\$1,200,000}{300,000 \text{ units}}$  =  $\$4 \text{ per unit}$ 

Fixed cost

Total cost = fixed cost + variable cost

At 1,800,000 units

\$7,840,000 = fixed cost + (1,800,000 units x \$4)

Fixed costs = \$640,000 per annum

#### (d) 2011 Cost forecast

Cost forecast in 2010 prices

Total cost = \$640,000 + (\$4 x output)

 $= $640,000 + ($4 \times 2,000,000 \text{ units})$ 

= \$8,640,000

Indexed to 2011 price levels

 $\$8,640,000 \times 95 \div 80 = \$10,260,000$ 

### (e) Three trends revealed by the diagram

- Total sales have increased over the three years
- Sales in market 1 have grown very rapidly
- Sales in market 2 are static
- Sales in market 3 are falling

### (only three trends were required)

#### 3 (a) Skilled labour budget

Basic hours (20 workers x 40 hours per week x 48 weeks per year) Overtime hours (20 workers x 48 weeks per year x 8 hours)	38,400 hours 7,680 hours
Total hours	46,080 hours
Basic pay (46,080 hours x \$25 per hour) Overtime premium (7,680 hours x \$25 per hour x 50%)	\$ 1,152,000 96,000
	\$1,248,000

#### (b) Budgets year ending 31 December 2011

#### (i) Production budget

Production (46,080 hours ÷ 2 skilled hours per unit)

23,040 units

#### (ii) Unskilled labour budget

Basic hours (23,040 units x 4 hours per unit) 92,160 hours Basic pay (92,160 hours x \$15 per hour) \$1,382,400

#### (iii) Direct material

Material usage (23,040 units x 6 kg per unit)) 138,240 kg Material cost (138,240 kg x \$2 per unit) \$276,480

#### (iv) Sales budget

Units (from above) 23,040 units Revenue (23,040 units x \$250 per unit) \$5,760,000

#### (c) Income statement

Sales revenue (from (iv) above) Direct labour	\$ 5,760,000
Skilled (from (a) above)	1,248,000
Unskilled (from (ii) above)	1,382,400
Direct material (from (iii) above)	276,480
Variable overhead (w1)	691,200
Fixed overhead absorbed (w2)	552,960
Under absorbed fixed overhead (w3)	47,040
Profit	\$1,561,920

Working 1 46,080 skilled hours  $\div$  2 hours x 6 hours x \$5 per hour Working 2 46,080 skilled hours  $\div$  2 hours x 6 hours x \$4 per hour Working 3 (150,000 hours – 138,240 hours) x \$4 per hour = \$47,040

#### (d) Overcoming labour shortages.

Labour shortages could be overcome by

- Recruiting more skilled labour, possibly by offering higher wages
- Training more skilled workers
- Investing in equipment to improve the productivity of skilled employees
- Using unskilled labour to perform the simpler elements of the skilled labour's work
- Subcontracting (outsourcing) some of the work to other manufacturers.

#### (only two methods were required)

#### 4 (a) (i) A participative approach to budgeting

A participative approach to budgeting (sometimes known as a bottom up approach) gives all budget holders an opportunity to participate in the setting of their own budgets. This is in contrast to a non-participative approach (a top down approach) which involves preparation of budgets by senior managers without giving the ultimate budget holder an opportunity to participate in the budgeting process.

#### Advantages

The advantages of a participative approach are:

- Budgets are based upon information from managers most familiar with the areas concerned, and are therefore likely to be more realistic.
- Budget holders are likely to have more commitment to budgets they have been involved in designing.

Because of the above, motivation and morale should improve.

#### Disadvantages

However, there are some disadvantages associated with participation

- Senior management may lose some control of the business caused by delegating decision-making to local managers.
- Junior managers may be less familiar with the company's strategic plan and therefore may make decisions that are not in line with company strategy.
- Junior managers may take the opportunity to build 'slack' (padding) into their budgets, resulting in reduced profitability.
- Depending upon the relative abilities and experience of senior and junior managers participation could be argued to produce poor quality decisions.
- It could slow down budget preparation.

#### (ii) The effect of targets upon motivation

Motivation is the drive or urge to achieve an end result. The targets included in budgets have an effect on motivation.

If a budget or target is set at a too easy a level it is unlikely to encourage budget holders to achieve their full potential. Although they may achieve the target set, this may not be their best possible performance.

On the other hand a budget that is set at a very challenging level may be seen as too difficult and dissuade budget holders from trying at all, resulting in very poor actual performance.

Ideally the targets included in budgets should fall between the two extremes. They should be challenging enough to encourage budget holders to work hard in order to achieve them, whilst not being seen as too difficult, so as to avoid demotivation.

Unfortunately this 'right' level of difficulty is hard to define and is likely to vary between individuals.

#### (iii) Goal congruence

Goal congruence is the situation when individuals or groups take actions that are in their own self-interest as well as in the best interests of the organisation.

#### (iv) Goal incongruence and dysfunctional behaviour

When goal congruence is lacking groups or individuals may make decisions that although are in their own best interests, are contrary to the best interests of the organisation. Such decisions are usually referred to as dysfunctional decisions.

#### (b) Potential problems with the new managing director's approach

The approach taken by the managing director has the following potential problems

- (i) The new budgeting system is a top down (non-participative) approach. This could result in the company failing to utilise the experience of its hotel general managers. This is particularly important given the geographical diversity of the business. It may also lead to a reduction in motivation and a lack of commitment amongst managers who are used to setting their own budgets.
- (ii) The large increases in profitability required by the budget may be regarded by budget holders as impossible to achieve resulting in a lack of motivation and a consequent reduction in profit.
- (iii) Relating hotel managers' pay to cost reduction programmes may result in dysfunctional decisions. Managers could increase their own salaries by reducing restaurant costs. These cost reductions could lead to a decrease in quality, causing both customer numbers and profitability to decrease.

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## June 2010 Marking Scheme

	<b>3</b> , 22, 23, 24, 24, 24, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25			
1	(a)	Marks as per requirement	12	
	(b)	2 marks per factor	8	
			20	
2	(a)	1 mark per figure	4	
	(b)	1 mark per labelled axis 2		
		correctly plotted points 2		
			4	
	(c)	variable cost per unit 2		
		fixed cost 2	4	
			7	
	(d)	indexing 1 forecasting 1		
		<del>-</del>	2	
	(e)	2 marks per identified trend, max	6	
			20	
3	(a)	basic hours 1		
		overtime hours 1 basic pay 1		
		overtime premium 1		
			4	
	(b)	(i) production units 1		
		(ii) one each for kg & \$		
		(iii) one each for hours & \$		
		(iv) one each units & \$	7	
			7	
	(c)	0.5 each for sales, skilled labour, unskilled labour and direct materials		
		variable overhead 2		
		absorbed fixed overhead 2 underabsorbed fixed overhead 1		
		_	7	
	(d)	one mark per sensible suggestion, max	2	
			20	

					Marks
4	(a)	(i)	definition advs and disadvs, 1 mark each max	2 4	
		(ii)	too easy too hard	2 2	
		(iii)	goal congruence dysfunctional decisions	2 2	14
	(b)	2 m	arks per justified point		6
					20