

Mark Scheme (Results)

January 2012

Principal Learning

Manufacturing & Product Design MP201 Paper 01

Running a Manufacturing Business



Edexcel and BTEC Qualifications

Edexcel and BTEC qualifications come from Pearson, the world's leading learning company. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers. For further information, please call our GCE line on 0844 576 0025, our GCSE team on 0844 576 0027, or visit our qualifications website at <u>www.edexcel.com</u>. For information about our BTEC qualifications, please call 0844 576 0026, or visit our website at <u>www.btec.co.uk</u>.

If you have any subject specific questions about this specification that require the help of a subject specialist, you may find our Ask The Expert email service helpful.

Ask The Expert can be accessed online at the following link:

http://www.edexcel.com/Aboutus/contact-us/

Pearson: helping people progress, everywhere

Our aim is to help everyone progress in their lives through education. We believe in every kind of learning, for all kinds of people, wherever they are in the world. We've been involved in education for over 150 years, and by working across 70 countries, in 100 languages, we have built an international reputation for raising achievement through innovation in education. Find out more about how we can help you and your students at: www.pearson.com/uk

January 2012 Publications Code DP030732 All the material in this publication is copyright © Pearson Education Ltd 2012

General Marking Guidance

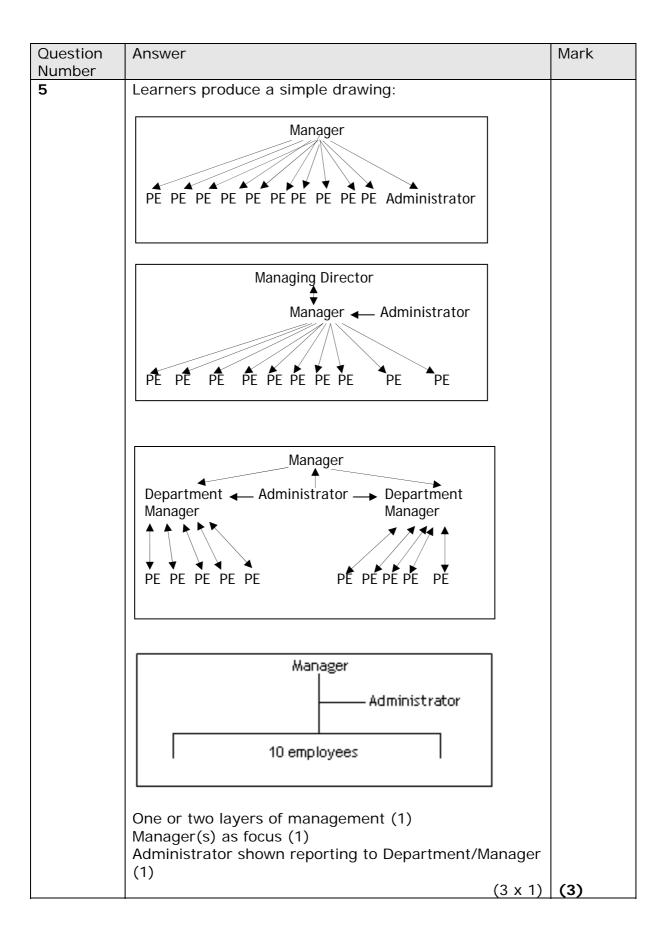
- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should 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 Number	Answer	Mark
1	Sales	(1)

Question Number	Answer	Mark
2	LargeHigh volumeMedium-large	(1)

Question Number	Answer	Mark
3	 One mark for each, to a maximum of 3 Small number of employees / fewer supervisors and managers Not more than 50 employees Sole trader/Partnership Small turnover/volume of sales Turnover less than £6.5m One product manufactured Accept any other suitable answer No repetition	
	(3 x 1)	(3)

Question	Answer	Mark
Number		Mark
4	Low response (1) or 2 low responses (2) Or detailed response (2) To a maximum of 2 marks: Moves products to customer (1) at a specified time/day (1) Analyses maximum/minimum customer requirements (1) to ensure sufficient transport/lorries (1) Managing (1) distribution of goods/supply chain (1) Analyses when/where products required (1) for efficient use of transport (1) Accept any other suitable answer (1 x 2)	
	(2×1)	(2)
·		



Question Number	Answer		Mark
6	 Production (1) Quality (1) Design (1) Legal (1) Administration (1) Distribution (1) 	(3 x 1)	(3)

Question Number	Answer	Mark
7	 1 mark for each of the following to a maximum of 2 marks One person/sole trader (1) Fewer than 10 employees (1) Possibly self employed (1) Low turnover (1) Not registered for VAT (1) One business location (1) 	
	Accept any other suitable answer (2 x 1)	(2)

Question Number	Answer	Mark				
8	Low response (1) or 2 low responses (2) Or detailed response (2)					
	Wages/other costs cheaper (1) so profits increase/control of costs (1)					
	Larger pool of labour (1) with appropriate skills (1)					
	Closer to customers (1) no import tariffs (1)					
	Emerging markets (1) opportunities for many new customers (1)					
	Availability of raw materials/supplies (1) so reduced transportation costs (1)					
	Foreign government incentives (1) increased cash flow (1)					
	Local fines/laws (1) associated with company output (1)					
	Political climate (1) may change in the future (1)					
	No repetition (1 x 2) (2 x 1)	(4)				

Question Number	Answer	Mark					
9(a)	Identification of short-term negative effect (1), description (1) to a maximum of 2 marks 2 identifications for the outline – 1 mark only						
	Increased need for supplies (1) may not be able to meet other orders from existing customers (1)						
	Decrease in existing customer satisfaction (1) reduction in size of customer base (1)						
	Large increase in output (1) staff/production facilities insufficient to meet order on time (1)						
	Need for worker overtime (1) impacts short term cash flow/bank loan required (1)						
	Short term stress impact (1) may lead to mistakes (1)						
	Accept any reasonable response (1 x 2)	(2)					

Question Number	Answer	Mark				
9(b)	Identification of long-term positive effect (1), description (1) to a maximum of 2 marks 2 identifications for the outline – 1 mark only					
	Large payment on large order so increase in cashflow/profits (1) able to reduce long-term debts (1)					
	New customer may repeat order (1) and so increase profits and sustainability / reputation with bigger customers (1)					
	Large repeat orders will mean larger orders of supplies (1) so can negotiate price reduction in supplies (1)					
	Accept any reasonable response (1 x 2)	(2)				

Question Number	Answer	Mark
10	1 mark for identification, 1 mark for description Up to 2 marks for each advantage	
	Manager can quickly communicate/control many employees (1) at same time (1)	
	Fewer managers (1) business salary costs lowered (1)	
	Fewer barriers to sharing of ideas between employees (1) as on same hierarchical level (1)	
	Fewer layers (1) so management messages reach employees faster (1)	
	Greater employee autonomy (1) as management supervision limited (1)	
	Delegation to employees (1) improves employee training opportunities/morale (1)	
	All problems coming to the manager are likely to be similar (1) so solution will be well practised and known (1)	
	No repetition (2 x 2) (1 x 2) (2 x 1)	
	(2 x 1)	(4)

Question Number	Answer							Mark	
11(a)	1 mark fo	1 mark for each correct answer (shaded cells)							
		Jan	Feb	Mar	Apr	May	Jun		
	Opening Balance	0	(2380)	(2635)	565	(1815)	(4195)		
	Sales	0	2420	7800	0	0	3900		
	Costs	680	975	2900	680	680	1450		
	Salary	1700	1700	1700	1700	1 700	1700		
	Closing Balance	(2380)	(2635)	565	(1815)	(4195)	(3445)		
							(5)	x 1)	(5)

Question	Answer	Mark
Question Number 11(b)	 Low response (1) or detailed response (2) up to 2 marks per description Take out a bank loan (1) to stay afloat (1) Find more sales/hire sales person/advertise/marketing (1) to generate more business/sales (1) Reduce staff levels/take no salary (1) to reduce costs (1) Diversify product range (1) to address market fluctuations (1) Reduce operating costs/sell assets (1) to increase profit (1) To close business (1) cut losses (1) Investigate other sources of funding (1) to achieve sustainability (1) Analyse peak sales period (1) repeat sales technique (1) Buy supplies in bulk/economies of scale (1) reduce costs (1) 	Mark
	(2 x 2) (1 x 2) (1 x 2)	(4)

Question Number	Answer	Mark
12	 Low response (1) or detailed response (2) up to 2 marks per description 2 low responses for 1 description - 1 mark only Competing products (1), lower sales of both (1) Customer/investor confusion of company/product image (1), value or premium quality company/product (1) Two models to keep up-to-date/buy stock (1), greater costs than if one model (1) Duplication of business functions if separate divisions for each product (1) so duplication of costs (1) Value model could take greater proportion of after sales support/investment (1) affecting profitability (1) Current models do not meet entire customer needs/base (1) so reducing sales/profits (1) 	
	No repetition (1 x 2) (1 x 2)	(4)

Question	Answer								Mark
Number									
13(a)	1 mark for 2	1 mark for 21 000 in either/both July/August							
	1 mark for 8	1 mark for 800 in September							
	1 mark for 2	2 900 in	Decem	ber					
	Month	Jul	Aug	Sept	Oct	Nov	Dec		
	Stock		21_000						
	beginning								
	of month								
	Sales			800					
	Production								
	Stock end								
	of month	21_000					22_900		
	-				•		((3 x 1)	(3)

Question Number	Answer	Mark
13(b)(i)	25 000 x 10 % 25 000 + 2 500 1 mark for calculation of both/either of above greater than 27 500 (1) (Sept, Oct, Nov) 3 months (1)	(3)

Question	Answer	Mark			
Number					
13(b)(ii)	Up to 2 marks for each factor				
	1 mark for identification,				
	1 mark for expansion				
	2 low responses for each factor – 1 mark only				
	Sales strategy during summer months (1) to increase sales (1)				
	Adjust manufacturing levels each month (1) to the optimum for sales (Just in Time) (1)				
	Introduce sales offers (1) to reduce stock levels (1)				
	Redesign product (1) to increase market potential (1)				
	Move in to corporate sales (1) evens seasonal demand (1)				
	No repetition				
	(1 x 2)				
	(1 x 2)	(4)			

Question Number	Answer	Mark
14	1 mark for identification, 1 mark for expansion 2 low responses for each factor – 1 mark only	
	 Manage/control budgets (1) to keep to financial plan (1) Easier to keep financial records up-to-date (1) lines of accountability (1) Monitoring purposes (1) less chance of fraud (1) Meeting financial standards (1) improved profile for customers/investors (1) (2 x 2) (1 x 2) (1 x 2) 	(4)

Question Number	Answer	Mark
15	Correct calculation = 1 mark for each step to a maximum of 6 marks	
	Final correct answer = 1 mark	
	Allow for reasonable rounding errors.	
	Selling price excluding VAT £3300/120 x 100 = £2750 (1)	
	Calculate value of parts less VAT £700 /120 x 100 = £583.33 (1)	
	Calculate the total costs £583.33 x 10% (1) £583.33 + £58.33 = £641.66 (1)	
	Calculate gross profit 2750 - 641.66 (1) = $\pounds 2108.34$ (1) (6 x 1)	(6)

Further copies of this publication are available from Edexcel Publications, Adamsway, Mansfield, Notts, NG18 4FN

Telephone 01623 467467 Fax 01623 450481 Email <u>publication.orders@edexcel.com</u>

Order Code DP030732 January 2012

For more information on Edexcel qualifications, please visit <u>www.edexcel.com/quals</u>

Pearson Education Limited. Registered company number 872828 with its registered office at Edinburgh Gate, Harlow, Essex CM20 2JE





