

Mark Scheme (Results) Summer 2010

Principal Learning

Manufacturing and Product Design MP301 Manufacturing Business Principles



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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		Mark
Number			
1	1 mark for each correct	answer	
	Activity	Function	
	Ensuring goods are	Logistics and Distribution	
	delivered on time and	(no mark for logistics on	
	in a cost-effective	its own, or distribution on	
	way	its own)	
	Testing the	Sales and Marketing (no	
	acceptance of new	mark for sales on its own,	
	products with	or marketing on its own)	
	potential customers		
			(2)

Question	Answer	Mark
Number		
2	Individual/family led enterprise Less than 10 employees Small business Assent any other suitable answer	
	Accept any other suitable answer Model Answer A micro-enterprise is a small business/enterprise (1). Typically a family business (1) It would normally employ less than 10 people (1) 1 mark for each correct answer to a maximum of 2	
	marks (2x1)	(2)

Question	Answer	Mark
Number		
3(a)(i)	1 mark for one of the following:	
	Production (1)	
	Research (1)	
	Design/development (1)	
	Accept any other suitable answer	(1)

Question Number	Answer	Mark
3(a)(ii)	1 mark for one of the following: Marketing (1) Sales (1) Customer service (1) Maintenance (1) Servicing (1) Accept any other suitable answer	(1)

Questio	on	Indicative Content
Numbe		
3(b)	r	Training of production operatives New machines New processes Reallocation of staff New QA/QC requirements Logistics issues Requirement for new staff Increased number of line managers Model Answer Introducing a new product line (1) will require a new production facility either in the existing premises or in new premises (1) New machines and processes may need to be introduced (1) staff will need to be reallocated (1) and trained (1) as well as the potential for new staff to be employed (1) There will be logistical issues in terms of raw material supply to the line (1) and shipping of finished products (1) Quality processes will need to be introduced (1) including QA/QC procedures (1), and new managers (1) to implement the process and project manage the implementation
Level	Mark	of the line (1) Descriptor
LOVOI	0	No rewardable material
1	1-2	Limited understanding of production issues demonstrated with one
		or two implications described
2	3-4	Clear understanding of production issues demonstrated with three
		or four implications described
3	5-6	Comprehensive understanding of production issues demonstrated
		with five or more implications described

Questi		Indicative Content
Numbe 4	žI .	Marketing director responsibilities
4		Ability to focus on:
		Market research
		Advertising
		Public relations
		Brand and product promotion
		Direct mail
		Long term profit strategy
		Sales Director responsibilities
		Ability to focus on:
		Short and medium term profits
		Negotiating contracts with customers
		Customer liaison
		Small sized enterprise
		Small sized enterprise Ability to have an everyion of both sales and marketing because:
		Ability to have an overview of both sales and marketing because: Smaller range of products
		Less money to spend on promotion
		Small scale confectioners would probably be in niche markets
		May have less competition
		May not operate in a global marketplace against global brands
		and the special of the ground manner process against ground at an area
		Model Answer
		A large scale manufacturer of confectionery will have a large range
		of products (1)
		across worldwide markets (1).
		The role of the sales manager is to secure short term profits (1)
		by negotiating/liaising with customers (1)
		to agree prices and product volumes (1).
		The role of the marketing director is related to long term profits (1)
		and involves developing strategies (1)
		to secure the future business of the company (1). This involves direct mail shots (1)
		public relations (1)
		market research (1)
		advertising (1)
		and product promotion (1).
		Where a small size company has a small range of products (1)
		or a niche market (1).
		There is likely to be less direct competition from large scale
		manufacturers (1)
		and less money to spend on promotion and branding (1).
		Because the product is probably not a global brand (1)
		the two roles can be comfortably accommodated by one person (1).
Level	Mark	Descriptor
1	0	No rewardable material
1	1-2	Limited understanding of differences between sales and marketing
		roles with poor description of the different sales/marketing needs
2	2.4	of large scale manufacture compared with small size enterprises
2	3-4	Clear understanding of differences between sales and marketing
		roles with satisfactory description of the different sales/marketing

		needs of large scale manufacture compared with small size enterprises
3	5-6	Comprehensive understanding of differences between sales and marketing roles with a thorough description of the different sales/marketing needs of large scale manufacture compared with small size enterprises

Questi	on	Indicative Content
Numbe	er	
		Promotion of new/modern technologies to increase productivity Income generation/growth Increased competitiveness Long term sustainability Security of employment Negate the effects of globalisation Innovation in products/processes To develop high value added products Minimise environmental impact Model answer Effective entrepreneurs seek to secure the long term future of a company (1) as well as the sustainability (1) and increased competitiveness of the business (1). They will consider the effects of globalisation (1) and support innovation (1) and leadership (1). An entrepreneur is prepared to take risks (1)
		to generate income/growth (1)
		by developing new technologies (1)
		and high value added products (1).
		They will often be interested in reducing environmental impact (1).
Level	Mark	Descriptor
	0	No rewardable material
1	1-2	Limited understanding of requirements for entrepreneurship
2	3-4	Clear understanding of requirements for entrepreneurship
3	5-6	Comprehensive understanding of requirements for entrepreneurship

Question	Answer	Mark
Number		
6	1 mark for each of the following to a maximum of 2	
	marks	
	Increase in interest rates:	
	More expensive to borrow money (1)	
	Bank repayments increase (1)	
	Could improve competitive advantage (1)	
	Decrease in interest rates:	
	Cheaper to borrow money (1)	
	Bank repayments decrease (1)	
	 More competition due to new business start-ups 	
	(1)	
	No repetition of answers.	
	Accept any other suitable answer (2x1)	(2)

Question Number	Answer	Mark
7	 1 mark for identification, 1 mark for expansion (2x2) or one point thoroughly explained (1x4) (up to 4 marks). To prevent the loss of a large employer (1) which has an effect on the supply chain (1) To maintain competitiveness (1) with foreign manufacturers who may also receive government subsidies (1) Car manufacturers are often situated in areas of potential social deprivation (1) and their loss would have a detrimental effect on the local economy (1) Psychological effect of losing a traditional mass employer(1) Future skills requirements (1) and the effects on 	
	the supply chain (1) Any other suitable answer	(4)

Question Number	Answer	Mark
8	 1 mark for identification, 1 mark for expansion to a maximum of 6 marks Reduce CO₂ emissions (1) thus reducing the use of ozone depleting/polluting chemicals and products (1) Increase use of recycled material in its products (1) to preserve natural resources (1) Use sustainable fuels in its processes (1) to reduce it's carbon footprint (1) Improve process efficiency (1) thus eliminating waste (1) Any other suitable answer 	(6)
	(0,2)	(0)

Lower wage bill Availability of local labour Current difficulties in recruitment/availability of skilled labour Current recruitment/retention issues Government grants/subsidies EU grants subsidies EU grants subsidies Availability of local suppliers Tax concessions Opportunity to expand operations Company image Logistical reasons Model Answer An area of high unemployment should mean an abundant supply of local labour(1) which can be paid low wages (1) and allow the enterprise to overcome possible difficulties in recruitment (1) and retention (1) Government (1) and EU grant and subsidies are often available (1) as well as tax concessions (1) and opportunities to expand operations (1) The company image will be improved (1) as well as opportunities to support local suppliers (1) and improve logistics (1) Level Mark Descriptor No rewardable material 1 1-3 Limited understanding demonstrated with up to three valid reasons cited 2 4-6 Clear understanding demonstrated with four to six valid reasons cited 3 7-8 Comprehensive understanding demonstrated with seven or more reasons cited	Question Number		Indicative Content
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cited 2		0	No rewardable material
cited 2	1	1-3	Limited understanding demonstrated with up to three valid reasons
cited 3 7-8 Comprehensive understanding demonstrated with seven or more			,
cited 3 7-8 Comprehensive understanding demonstrated with seven or more	2	4-6	Clear understanding demonstrated with four to six valid reasons
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
	3	7-8	Comprehensive understanding demonstrated with seven or more
			,

Question	Answer	Mark
Number		
10 (a)	1 mark for identification, 1 mark for expansion to a maximum of 2 marks. A manufacturing enterprise forecasts (1) what its business objectives will be 3-5 years in the future (1) It provides vision (1) setting goals (1) for maintaining competitiveness (1) (1x2)	(2)

Questi	on	Indicative Content
Numbe	Number	
Markets Cost/revenue Business improvement R&D - new product development Staff training - new skill/techniques Facilities - increased or decreased space requir		Cost/revenue Business improvement R&D - new product development Staff training - new skill/techniques Facilities - increased or decreased space requirements Competition - SWOT analysis, effects of competitors, globalisation Marketing, sales strategy Sales/cash flow forecasts
		Model Answer A strategic business plan sets business goals (1) which explores potential and existing markets (1) and investigates costs in comparison to revenues (1) The plan will include business improvement opportunities (1) and the issues of staff training (1) research and development (1) and sales/cash flow forecasts (1) which are related to the balance sheet and profit/loss (1) The plan will consider whether to increase/decrease facilities (1) and the impact on the business of competition/globalisation (1) In addition it will inform the marketing/sales strategy (1) usually by considering a SWOT analysis (1)
Level	Mark	Descriptor
	0	No rewardable material
1	1 1-2 Limited knowledge demonstrated of the elements of a business with one or two elements highlighted/discussed	
2	At least two points made with expansion, or one fully developed response demonstrating sound knowledge of the elements of a business plan	
		At least three points made with expansion. If only two points are made these must be fully expanded with comprehensive knowledge demonstrated of the elements of a business plan

Question	Answer	Mark	
Number			
11	 1 mark for each of the following to a maximum marks Increased sales (1) Increased product recognition (1) Maintain/increase customer base (1) Brand recognition to maintain sales (1) Introduction of new products (1) Speculate to accumulate (1) Cost benefit (1) Forward planning (1) 	n of 3	
	Any other suitable answer	(3x1)	(3)

Question	Answer	Mark
Number		
12(a)	A cost which depends upon sales volumes (1) such as materials or labour (1) 1 mark for identification, 1 mark for expansion to a maximum of 2 marks (2x1)	(2)

Question Number	Answer	Mark
12(b)	More than one example with 1 mark for each example and 1 mark for the explanation (2x2) or 1 mark for an example and 3 for a thorough explanation (4)	
	Although each of the following can be considered indirect costs they support the whole organisation, for a large enterprise they can be budgeted for as a fixed cost. (1)	
	Examples include: Advertising (1) IT support (1) Security (1) Maintenance (1)	
	Model Answer Maintenance can be considered and indirect cost (1) as maintaining the facility is not directly associated with an individual kitchen appliance (1). However this budget can be considered fixed (1) as the amount of money can be predicted regardless of the number of units manufactured (1).	
	Any other suitable answer	(4)

Ougst!	0 D	Indicative Content	
Questi Numbe		Indicative Content	
13	71	Elements of lean manufacturing can include:	
13		Continuous improvement/Kaizan	
		Customer focused	
		U	
		0 1 1/0 11	
		11 119 11 6 1	
 Identification of waste Elimination of waste 			
		Identification of value and non-value added activities	
		Right first time Flimination of waiting time	
		Elimination of waiting time Palanced work leads (weekflow)	
		Balanced work loads/workflow	
		Maximise efficiency of workforce and machines	
		Minimise or eliminate transportation	
		Recording time and motion of workers	
		Principle of seven wastes	
		• 5S/5C	
		Model Anguer	
		Model Answer Lean manufacturing techniques can reduce costs (1) by focusing on	
		what the customer wants/will pay for (1).	
		Consequently by removing waste (1)	
		and non-value added input (1)	
		to a process that process becomes more efficient (1) Other forms of	
		waste include inventory (1)	
		which can be reduced using pull systems (1),	
		balancing the worker inputs on a production line (1)	
		and JIT procedures (1)	
		similarly rework (1)	
		which can be reduced by implementing "right first time" principles	
		(1)	
		and giving responsibility for quality to the operators (1).	
		Other strategies such as introducing 5S/5C (1)	
		Six Sigma (1)	
		and mistake proofing (Poke Yoke) also improve efficiency (1)	
		Up to a maximum of 9 marks	
Level	Mark	Descriptor	
1	0	No rewardable material	
1	1-3	Limited understanding of lean manufacturing with one or two	
	4 (concepts identified	
2	4-6	Clear understanding of lean manufacturing with three or four	
2	7.0	concepts identified Comprehensive understanding of lean manufacturing with five or	
3	7-9	Comprehensive understanding of lean manufacturing with five or	
		more concepts identified	

Question	Answer	Mark
Number		
14	1 mark for identification up to a maximum of 3 marks (3x1), or 1 mark for identification and up to 2 marks for expansion to a maximum of 3 marks (1x3). Comparing the total costs of a project (1) against the total benefits (1). The costs and benefits can be used to determine payback time/viability (1). It gives numeric values to different investment strategies (1). e.g. Cost v benefit (1) Return on investment [ROI] (1) Throughput analysis (1) Payback period (1)	(3)

Question Number	Answer				Mark
15(a)	PROFIT AND LOSS AC				
		£000	£000	£000	
	Income	•	•		
	Total sales			390	
	Cost of Sales	•	•		
	Materials	111			
	Wages	148			
	Total		(259)		
	GROSS			131	
	PROFIT/LOSS				
	Promotions	•	•		
	Advertising	37			
	Total		(37)		
	Expenses	•	•		
	Rent/Rates	37			
	Utilities	37			
	Total		(74)		
	NET PROFIT/LOSS			20	
	BEFORE TAX				
	 1 mark for Rent/R correct heading. (Advertising under Use of brackets to column (1) Correct answer for through for '000' of 1 mark for correct 	1) the corrections signify of r net pro errors) (**	ect headii debits in r ofit/loss (a	ng (1) niddle allow follow	

Question	Answer	Mark
Number		
15(b)	Net profit 20 000 x 100 Total sales 390 000 (1)	
	= 5.13% (1)	
	Allow for error carried forward from (a)	
	1 mark for showing working	
	1 mark for correct answer (up to two marks) (2x1)	(2)

Question Number	Answer	Mark	
16(a)(i)	ROI = (benefits/costs) x 100 (1)		
	Product X = (76 900/96 000) x 100 = 80.1% (1) Product Y = (63 400/80 900) x 100 = 78.4 % (1)		
	1 mark correct working,		4-3
	1 mark per correct answers	(3x1)	(3)

Question	Answer	Mark
Number		
16(a)(ii)	Product X should be developed as it has the higher	
	ROI (1)	(1)

Question	Answer	Mark	
Number			
16(b)(i)	Payback periods = costs/monthly benefits (1)		
	Product X: Monthly benefits = 76 900/18 = 4272 Payback period = 96 000/4 272 = 23 months (1)	2	
	Product Y: Monthly benefits = 63400/12 = 5283 Payback period = 80 900/ = 16 months (1)		
	1 mark correct working, 1 mark per correct answer	(3x1)	(3)

Question	Answer	Mark
Number		
16(b)(ii)	Product Y should be selected (since it has the lower	
	payback period) (1)	(1)

Question	Answer		Mark
Number			
16(c)	Product Y should be selected because it has significantly less payback time (1) and almost same ROI (1) 1 mark for each point noted	the (2x1)	(2)

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