

2012 MPI Manufacturing Study

Please provide a response to each question based on a single manufacturing plant. If you do not know the answer to a question or if a question does not apply or is unclear, simply leave that answer blank. **Study deadline is Oct. 16, 2012.**

		PLANIF	ROFILE			
1. Please indicate if this plan	nt is part of a public	or private com	pany: (check	one)	1-1 Public	₂ Private
2. In which state is the plant	located?		114			
3. What is the nature of man 3. Discrete (measured by)	numeric quantities)	₂☐ Process	s (measured b	by weight or volume	e) ₃□ Bot	th or hybrid
4. What is the primary produ	ict that this plant pro	oduces (e.g., ax	iles, software	e)		4
5. How many years has it be 5-1 Less than 5 years	en since plant start- ₂☐ 5 - 10 y			20 years	₄⊡ More th	an 20 years
6. In which of the following i	ndustry value chains ₅□ Consumer packa ₅□ Consumer produ ¬□ High tech □ Industrial equipm	aged goods/none	durables		ils, biotechnolo blishing	gy, medical
7. Which criterion below bes		-	•	r plant's operation lume/High mix	,	•
8. What is the approximate a (independently owned facility)				\$		300
9. What is the approximate a	innual revenue of thi	!	Past year (20 This year (20	nter, please report a (11) \$		601
10. How much progress has 40-1 No progress	the plant made towa			nanufacturing state	•	e) ully achieved
		HUMAN RE	SOURCES			
11. How important is human		ent to your pla				one) ghly important
12. Approximately how many	y employees (all staf	ff) are at this pl	ant location?	?		
		A	Th	ist year (2011) nis year (2012) ext year (2013)		602 303 424
13. What percentage of plant 250-1 0% 2	-	s are represent ☐ 26 – 50%	-] 76 – 99%	₅⊡ 100%
14. What is the plant's annua (number of voluntary and in						% ₁₀
15. What percentage of prod ₁₅₋₁ 0% ₂		articipate in em □ 26 – 50%	npowered or ₄_ 51		teams?] 76 – 99%	շ∏ 100%
16. What are the average and	nual hours of formal ₂_ 8 – 20 h	-	ed by each p ₃ 21 –	· ·	· ·	an 40 hours

17.	What percentage o (check one)	ge of positions have documented skill standards supported by training					ligned with tho	se standards?
	603-1 0%	₂ 1 − 25	%	₃□ 26 – 50%	₄ <u></u> 51 − 75%	6	₅ 76 – 99%	₀□ 100%
18.	What are the appro	ximate wag	es for prod	luction employees	? (hourly rate with	out overtim		
							Average wa	age \$ ₁₆
							Starting wa	ge \$ ₃₀₅
19.	Which of the follow	ving human-	resource p	ractices/programs	s are used at this _l	olant? (che	ck all that apply)
	₁₁□ Formal employee	_	=	312 Apprenticesh		-		-building practices
31	₁₄ ☐ Leader/superviso	r developme	nt	₃₁₅ Recruiting ar	nd hiring program	316	Paid medical b	enefits
	₁₁☐ Paid sick and/or			₃₁₅☐ Formal safet			Paid vacation	
	₂₀⊡ Annual review an ₂₃⊡ Bonus plan	id raise progr	am	Employee-ov 324 Education re	wnership options imbursements] Profit or revenu] None of these	ue-sharing plan
20.	For the past year, I	now many: (total numbe		Job-re iries and illnesses	_	ies and illness	
				Job-related hijd	ines and innesses	resulting	iii iost work da	ys ₃₇ .
				OPERA	TIONS			
21.	Please indicate wh	ich of the fo	llowina imi	provement metho	dologies are follog	ved at the	plant: (check al	I that apply)
	326 Agile Manufactu		_	Manufacturing	328 ☐ Theor		-	Six Sigma
	330 Total Quality Ma			ta Production Syste		methodolo		No methodology
22	Please describe the	e denth and	breadth of	adoption of your	chosen methodolo	nav(ies)? (check one)	
	604-1 None	o doptii diid ₂∏ Mii		₃ Mode) Extenلٍ₄ Extenلٍ₄	•	₅⊟ Complete
								'
	How important is p	=		-		-		
	425-1 Not important	₂ Minor ir	mportance	₃⊡ Somewh	nat important	₄ Importa	ant ₅□	Highly important
24.	What percentage o	f your work	force is full	ly engaged in you	r improvement me	thodology	(ies)?	%426
25.	Which of these pro	orams and/o	or practices	s occur at this pla	nt? (check all that a	annly)		
	138 Benchmarking	9	 		tive maintenance		uality certification	ns (e.a. ISO)
	139 Continuous-imp	rovement pro	gram	Open-book r			rategy/policy de	
	Waste elimination		n wastes)	₃₃₅ Value-strean		₃₄₀ □ Ka	izen events/blit	zes
	PDCA problem-	solving		144 None of thes	se			
26.	Please estimate the	e following o	peration/p	roduction measu	res for your plant:			
				asures			Current Year	3 Years Ago
-	a. Manufacturing cy			·	letion of primary pro	oduct)	hrs 49	hrs ₁₇₄
-	b. On-time delivery	<u> </u>		•	stad data narfast a	uality and	% ₅₃	% ₁₄₈
	 Perfect delivery r to customer specif 		ous on time	to customer-reque	sted date, periect q	uality, and	% ₃₇₂	% ₃₇₃
•	d. Finished-product	first-pass q	uality yield	(% of product that	t passes final inspec	ction)	% ₄₆	% 147
-	e. Scrap and reworl	-					% 176	
1	f. Warranty costs (a	as % of plant	sales)				% ₁₇₈	% ₁₇₉
27.	How has total prod	luction outn	ut (unit vol	ume) changed in	the past 12 month	s? (check c	one)	
	146-1 Decreased mo	-	-	eased 11 - 20%	₃□ Decreased 1		-	yed the same
	₅ Increased 1 - 1			ased 11 - 20%	₁☐ Increased m			-
28	What are the plant'	s coete ae a	nercentag	e of costs of acce	ds sold (COGS)? (i	ndicate % f	or each categor	·v)
_5.	are are plant		. po.oontag	,	55.2 (5566): (1	Ī	a. Labor	% ₄₁

% 42

% ₄₃

100%

b. Overhead

Total COGS =

c. Material

29. What is the plant's cost of goods sold as a percent of plant revenue? (annual COGS ÷ annual revenue) % 44											
30. What are the a (include all empl	pproximate sales oyees, not just dire		e for the mo	st recent fisc	cal year?	S		per employee 60			
31. How have sale	s per employee c	hanged in the	past year?	(check one)							
149-1 ☐ Decreased 5☐ Increased	d more than 10% 1 - 5%	2☐ Decreas	sed 6 - 10% ed 6 - 10%	~ <u></u>	Decreased ncreased n	1 - 5% nore than 10		ayed the same			
32. How have per-	32. How have per-unit manufacturing costs, excluding purchased materials, changed in the last 3 years? (check one)										
Decreased more than 20% a Decreased 11 - 20% a Decreased 1 - 10% a Stayed the same lincreased 1 - 10% a Increased 11 - 20% a Increased more than 20%											
One-piece f 183 Quick equip 186 Just-in-time 34. What are the p	33. Which of the following practices are used to manage inventory? (check all that apply) 180 One-piece flow techniques 181 Pull systems with kanban signals 184 RFID and computerized inventory tracking 185 Just-in-time supplier deliveries 187 Vendor-managed or -owned inventories 34. What are the plant's inventory turn rates for the following categories of material?										
	no inventory for a				• •	as 365 turns	,				
a. Raw materia	I (annual COGS ÷	average value	e of raw mate	erial on hand)			tu	rns per year 55			
b. Work-in-pro	cess material (an	nual COGS ÷ a	average valu	e of WIP on h	nand)		tu	rns per year 56			
c. Finished go	ods (annual COGS	S ÷ average va	lue of finishe	ed goods on h	and)		tu	rns per year 57			
d. Total invent	ory (annual COGS	s ÷ average va	lue of total in	ventory on ha	and)		tu	rns per year 58			
35. Approximately	what percentage	of the plant's	s total inven	tory is obsol	ete?			% ₃₄₁			
36 How has the to	tal inventory turn	rato chango	d in the last	thron years?) (check on	۵۱					
36. How has the total inventory turn rate changed in the last three years? (check one) □ Decreased more than 20% □ Decreased 11 - 20% □ Increased 1 - 10% □ Increased 11 - 20% □ Increased more than 20% □ Increased 11 - 20% □ Increased more than 20%											
₅ Increased	1 - 10%	₅⊡ Increase	ed 11 - 20%	₇				you are sume			
₅ Increased	1 - 10%	₅ Increase		-,□ II				yeu me dame			
Increased 37. How important 427-1 Not import	is supply-chain r	management t	Supr	PLY CHAIN	ncreased n	nore than 20	rs? (check c				
37. How important	is supply-chain r ant ₂□ Minor im	management	SUPE to your plan ₃□ Some	PLY CHAIN at's success what importan	ncreased n over the no	ext five yea	rs? (check c	one) Highly important			
37. How important	is supply-chain r ant ₂□ Minor im	management	SUPE to your plan ₃□ Some	PLY CHAIN at's success what importan	ncreased n over the no	ext five yea Important	rs? (check c	one) Highly important			
37. How important 427.₁□ Not import 38. Which of the fo	is supply-chain r ant ₂□ Minor im	management portance cribes your re	SUPP to your plan ₃⊡ Some elationship v	PLY CHAIN at's success what importan	ncreased n over the no	ext five yea Important tomers? (ch	rs? (check of the control of the con	one) Highly important each column)			
37. How important 427-1 Not import 38. Which of the fo	is supply-chain rant 2 Minor im	management in portance cribes your research	Suproto your planus Some selationship v	PLY CHAIN It's success what important with supplier	ncreased n over the no	ext five yea Important tomers? (ch	rs? (check of the control of the con	each column) Customers			
37. How important 427-1 Not import 38. Which of the fo	is supply-chain rant a Minor im billowing best des	management of the portance cribes your restand quality oad qualification	SUPPORT OF THE STATE OF THE STA	PLY CHAIN It's success what important with supplier and	ncreased n over the nant 4	ext five yea Important tomers? (ch	rs? (check of the control of the con	each column) Customers			
37. How important 427-1 Not import 38. Which of the fo	is supply-chain rant 2 Minor implication (e.g., contification (e.g., britification (e.g., bri	management in portance cribes your reserved and quality oad qualification product	Suproto your plan	PLY CHAIN at's success what important importa	over the note and cust	ext five yea Important tomers? (ch	rs? (check of some for ppliers	each column) Customers			
37. How important 427-1 Not import 38. Which of the fo Buy Cer Coo Par	is supply-chain rant amount immediately and sell (e.g., contification (e.g., shotnership	management of portance cribes your respect and quality oad qualification aring product aring resources are assessed a	to your plan Some elationship v focus) ons establish ideas, best p s, intellectua	PLY CHAIN It's success what important with supplier Ited) Iteractices) I property, cost	over the nate of the stand customs and customs standings)	ext five yea Important tomers? (ch	rs? (check of the control of the con	Done) Highly important each column) Customers 375-1 2 4 4 ck all that apply)			
37. How important 427-1 Not import 38. Which of the fo Buy Cer Coo Par 39. Which of the fo 605 Quality/relia	is supply-chain rant 2 Minor im collowing best description y and sell (e.g., contification (e.g., broperation (e.g., shatnership (e.g., shatners	management in portance cribes your respect and quality oad qualification aring product aring resources are assessed as soo Delive	to your plan Some elationship v focus) ons establish ideas, best p s, intellectua and docume ery (to sched	PLY CHAIN It's success what important with supplier Ited) Iteratives) I property, cost	over the note that the sand cust savings) erial/comp	ext five yea Important tomers? (ch	rs? (check of the control of the con	Done) Highly important each column) Customers 375-1 2 4 4 ck all that apply) 606 Total cost			
37. How important 427-1 Not import 38. Which of the fo Buy Cer Coc Par 39. Which of the fo 605 Quality/relia 609 Adherence	is supply-chain rant amount immediately and sell (e.g., contification (e.g., should be be be belowing criteria and billowing criteria and	management of portance cribes your respect and quality oad qualification aring product aring resources are assessed as soon Delivered Services	Suprito your plant and setablish ideas, best plant ideas, best pla	PLY CHAIN It's success what important with supplier Ited) Iteractices) I property, cost ented for matuale) eness	over the not 4 s and cust st savings) erial/comp	ext five yea Important tomers? (ch	rs? (check of the control of the con	ck all that apply)			
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37. How important 427 Not import 38. Which of the fo Buy Cei Coo Par 39. Which of the fo 605 Quality/relia 609 Adherence 613 Environmen	is supply-chain rant amount in Minor im	management in portance cribes your respect and quality oad qualification aring product aring resources are assessed a song Deliver of Criteries are unit basis) of Decreased more than	supplemental states of supplier changed in the source of the supplier changed in the supplier changed	PLY CHAIN It's success what important with supplier Ited) Interpreted for mateule) eness is suppliers Interpreted for mateule beness is suppliers Interpreted for mateule beness Inter	over the not sand cust savings) erial/comp	ext five yea Important tomers? (ch Sul ponent supp Productiv Labor pra Cother heck one in	rs? (check of the control of the con	che) Highly important each column) Customers 375-1 2 4 ck all that apply) 606 Total cost 612 Ethics 616 No criteria			
37. How important 427-1 Not import 38. Which of the form Buy Cer Coo Par 39. Which of the form 605 Quality/relia 609 Adherence 613 Environment 40. How have the form a. Price for year	is supply-chain rant amount in Minor im	management in portance cribes your respect and quality oad qualification aring product aring resources are assessed as 606 Delivering Service 14 Criterion Criterion Criterion Decreased more than 10%	support to your plant of some elationship was established ideas, best part of some ery (to sched ce/responsive ia of supplier changed in the	PLY CHAIN It's success what important with supplier Ited) Practices) I property, cost ented for matuale) eness ented for matuale) the past 12 m Decreased 1-5%	over the nent 4 s and cust st savings) erial/comp	ext five yea Important tomers? (ch Su Productiv Labor pra Cother heck one in Increased 1-5%	rs? (check of the control of the con	che) Highly important each column) Customers 375-1 2 3 4 ck all that apply) 606 Total cost 612 Ethics 616 No criteria			
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37. How important 427-1 Not import 38. Which of the form Buy Cer Coo Par 39. Which of the form 605 Quality/relia 609 Adherence 613 Environment 40. How have the form a. Price for ye b. Component c. Employee d. Employee	is supply-chain rant all Minor im and all Minor im billowing best designed and sell (e.g., contification (e.g., broperation (e.g., should be all bility to specifications and performance following (on a performance following (o	management in portance cribes your respect and quality oad qualification aring product aring resources are assessed at 606 Delive 610 Service 614 Criterion Criterio	to your plan and some establish ideas, best pass, intellectual and docume ery (to sched de/responsive ia of supplier changed in the defended of the defended o	PLY CHAIN It's success what important with supplier Ited) Interpreted for mature ure) eness Iterity suppliers Iterity suppl	over the nent 4 s and cust st savings) erial/comp	ext five yea Important tomers? (ch Su Productiv Labor pra Other heck one in Increased 1-5%	rs? (check of the control of the con	ck all that apply) cost of the cost of th			

41.	To what degree are the following	ng activitie	s outsour	ced? (che	eck one	for each acti	vity)			
		All	Some	None				All	Some	None
	a. Fabrication	376-1	2	3	g. P	urchasing		382-1	2	3
	b. Assembly	377-1	2	3	h. Tı	ransportatio	n	383-1	2	3
	c. Electrical	378-1	2	3	i. Cı	stomer ser	vice	384-1	2	3
	d. Design and/or R&D	379-1	2	3	j. HF	R manageme	ent	385-1	2	3
	e. Maintenance	380-1	2	3	-	ales and ma		386-1	2	3
	f. Information technology	381-1	2	3						
42.	Please estimate the following				ıres for	your plant:				
		Measu	ıres				Curre	nt Year	3 Year	rs Ago
	a. Customer reject rates (part	s per millior	า)					ppm ₂₀₈		ppm ₂₀₉
	b. Customer retention rate (%	customers	retained f	rom previo	ous yea	r)		% 210		% 211
	c. Overseas sales (as % of tot	al dollar vol	ume)					% 212		% 213
	d. Imported material/compon (% of dollar volume purchase		nome coun	try)				% ₁₅₃		% 214
	e. Imported material/component	ents from (China (% c	of dollar vo	olume fr	om China)		% 215		% 216
	Please indicate how the follow insourcing (production work bround production work metabolic production work production work production work metabolic production work metabolic production work production work production work production work metabolic production work metabolic production work production wor	ught back to oved to ext	p plant from ernal supp CAPAC	n outside : liers as %	supplier of total	s as % of tot production v				
45.	Please estimate the following o			neasures	for you	ur piant:			2 Va	•
	a Duadication values (as 0/ as		asures	-:4\				urrent Yea		ars Ago
	a. Production volume (as % of			City)					D 78	% 217
	b. Machine availability (as % o			ailabilitu V	0/ augl	ity viold V		90	, 0 ₇₉	% 218
	c. Overall equipment effective % of optimal rate that equipm d. Percentage of unplanned n	ent operate	es)				2	%	o 80	% ₁₅₆
	(% based on annual maintena			cemage (oi totai	mamienano	e	%	619	% 620
	e. Return on invested capital	(net operati	ng profit at	fter taxes	÷ by ca _l	oital invested)	%	, O ₆₃	% 151
46.	Please rate your plant's capab	ility to mor	nitor and n	neasure t	he follo	owing: (chec	k one in e	ach row)	·	
				1= capa		2	3	4		eal-time pability
	Process-specific quality			560-1	1	2	3	4		5
	Process-specific productivity (i.e.		. waste)	561-1	1	2	3	4		5
	Process-specific pace or speed			562-1	1	2	3	4		5
	Process-specific safety			563-	1	2	3	4		5
	Process-specific sustainability p	erformance	•	564-	1	2	3	4		5
	Location-specific inventory leve	ls		565-1	1	2	3	4		5
	Individual equipment or machine	e performar	nce	566-1	1	2	3	4		5
	In-plant material-handling perfo	rmance		567-	1	2	3	4		5
	External logistics/distribution pe	rformance		568-1	1	2	3	4		5
	Supplier performance			569-	1	2	3	4		5

 For which functions are effective inform (check all that apply) 	nation technolog	y (IT) applica	ations and/o	or systems (currently in	place?		
Production/operations 575 Log	oduction/operations 575 Logistics/distribution			Design/development The property of the proper				
48. For which functions are applications ar	nd/or systems <i>lik</i>	ely to be pur	chased in t	he next 12 r	nonths? (ch	eck all that apply)		
582 Enterprise management 586 Production/operations 580 Supply-chain management 580 Supply-chain management 580 Asset management			Design/development Human resources Customer service/support			Procurement/purchasing Accounting/finance		
49. Approximately what percentage of IT sy	_							
50. What are the following investments/exp how is that percentage likely to change		entage of pla	<u>int sales</u> foi	the current	year, and			
		Current	: %	Increase	Same	Decrease		
a. Capital-equipment spending			% ₁₅₉	401-1	2	3		
b. Information technology spending			% 160	402-1	2	3		
c. Process improvement initiatives			% ₃₉₅	403-1	2	3		
d. Employee costs (all wages, benefits,	etc.)		% ₃₉₆	404-1	2	3		
e. Utilities/energy			% 397	405-1	2	3		
f. Material and components			% 398	406-1	2	3		
51. How did the following affect your company's profitability in the most recent year? (check one in each row)								
	Major increase	Some increase	No change	Some decrease	Major decrease	Not applicable		
a. Use of improvement methodology(s)		2	3	4	5	6		
b. Application of new capital equipment	347-1	2	3	4	5	6		
c. Implementation of new IT	348-1	2	3	4	5	6		
d. Development of new products/service	es 419-1	2	3	4	5	6		
e. Investments in the workforce		2	3	4	5	6		
	GREEN/SU	JSTAINABILIT	Υ					
52. How important is green/sustainability to	o your plant's su	ccess over t	he next five	years? (che	eck one)			
439-1 Not important 2 Minor importance	e ₃□ Some	ewhat importa	ant ₄[] Important	₅ 	Highly important		
53. Which of these Green programs and/or	practices occur	at this plant?	? (check all	that apply)				
440 Energy management						of renewable energies		
441☐ Formal Green corporate program	443 Carbon fo	ootprinting	printing 445 No			ne of these		
54. Please estimate the following green/sus	stainability meas	ures for you	r plant:					
	sures			Current \		Years Ago		
a. Green products (% of plant product					% ₃₈₇	% ₃₈₈		
b. Carbon footprints (% of plant produ	ited carbon fo	otprint)		% 446	% 448			
c. Green components and materials (% of purchased components or materials that are recycled/regrind/etc.) %						% 449		
55. By approximately what percentage has been reduced in the past year? (indicate						% ₄₅₀		
56. By approximately what percentage hav (CO2, methane, etc.) been reduced in the					symbol)	% % 451		
———— Thank y	ou for completir	ng the MPI M	anufacturin	g Study —				

To receive your **free Executive Summary** of this year's study findings and **free online access to customizable benchmarks** from four years' of the study data, go to *www.MPIBenchmarks.com* and provide the necessary contact information.

If you would like to send a hard copy of your questionnaire, please mail to MPI Manufacturing Study, P.O. Box 4330, Dublin, OH 43016, or fax the questionnaire to 614-389-3816.